

 MITSUBISHI

VS-45501  
VS-45502  
VS-50501  
VS-50502

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Projection

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TV

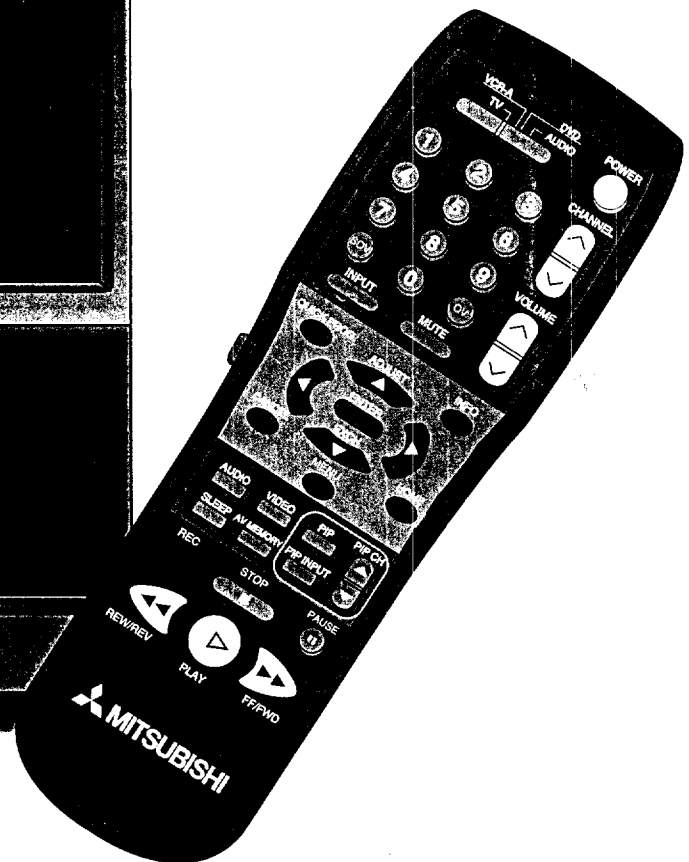
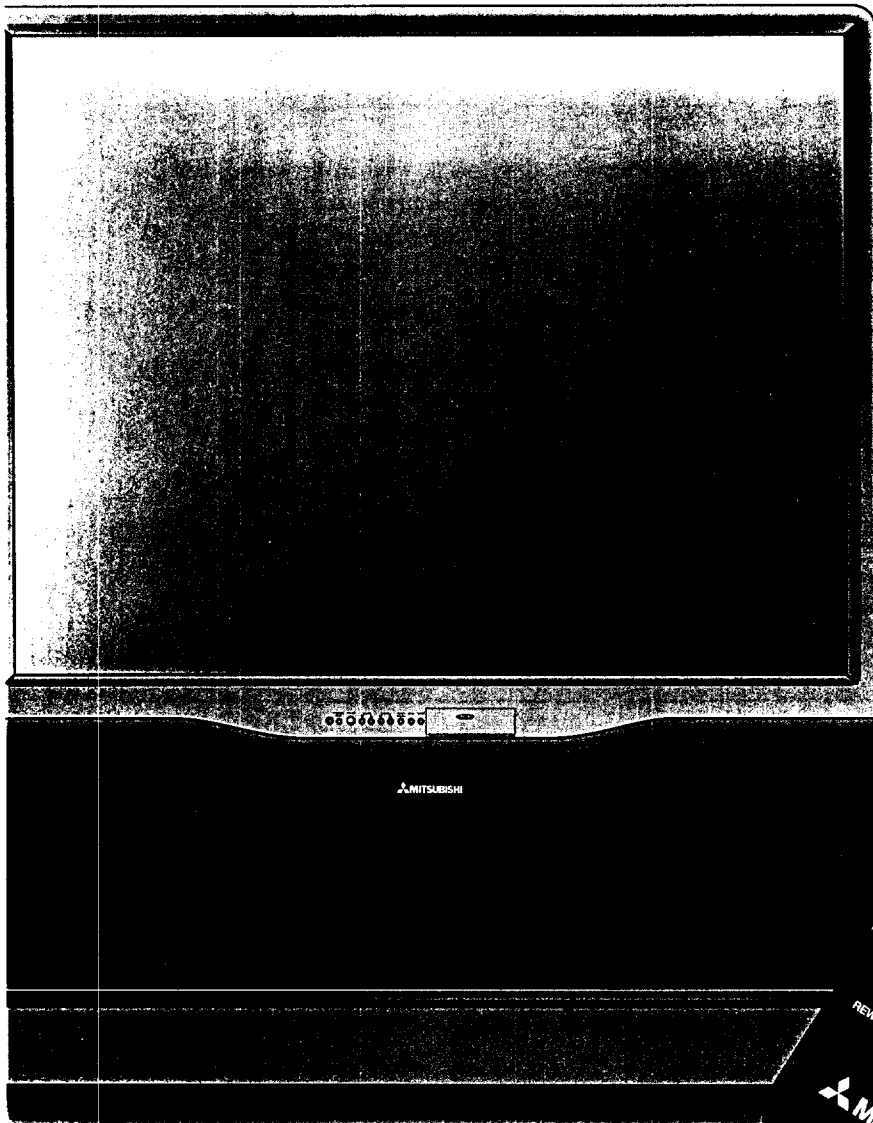
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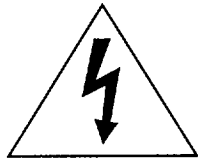
Owner's

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Guide

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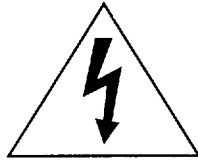


## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER (OR BACK).  
NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

► **Warning:**

Don't leave stationary images, such as stock market reports, video games, station logos, or the TV's displays, on-screen for more than 10 minutes. Still patterns such as these can scar the picture tube, causing permanent damage to the TV.

**WARNING:**

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**CAUTION:**

TO PREVENT ELECTRIC SHOCK HAZARD, DO NOT USE THIS UNIT'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**NOTE TO CATV SYSTEM INSTALLER:**

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.



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# IMPORTANT SAFEGUARDS

PLEASE READ ALL THESE INSTRUCTIONS REGARDING YOUR TELEVISION SET AND RETAIN FOR FUTURE REFERENCE. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE TV RECEIVER.

## 1. Read Instructions

Read all safety and operating instructions before operating the appliance.

## 2. Retain Instructions

Retain the safety and operating instructions for future reference.

## 3. Heed Warnings

Adhere to all warnings on the appliance and in the operating instructions.

## 4. Follow Instructions

Follow all operating and use instructions.

### ► Warning:

#### 5. Cleaning

Unplug this TV receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Cleaners can permanently damage the cabinet or screen. Use a damp cloth for cleaning.

## 6. Attachments and Equipment

Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

## 7. Water and Moisture

Do not use this TV receiver where contact with or immersion in water is possible. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

## 8. Accessories

Do not place this TV receiver on an unstable cart, stand, tripod, bracket, or table. The TV receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV receiver. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



## 9. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV receiver and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the TV receiver on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV receiver is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

## 10. Power Sources

This TV receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

## 11. Grounding or Polarization

This TV receiver is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

## 12. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

## 13. Lightning

For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV receiver due to lightning and power-line surges.

## Important Safeguards (cont.)

### 14. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

### 15. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

### 16. Object and Liquid Entry

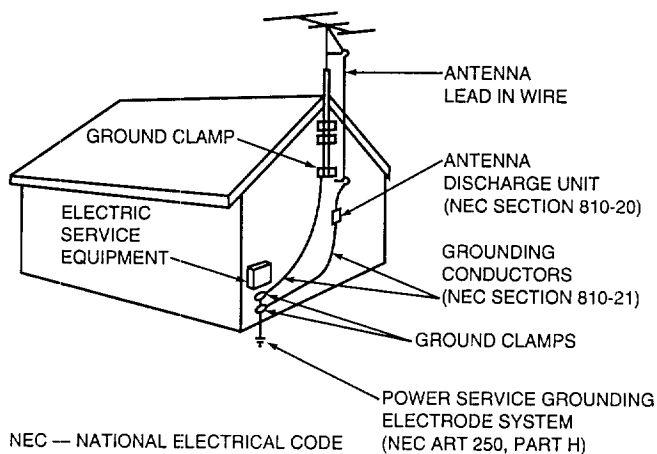
Never push objects of any kind into this TV receiver through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV receiver.

### 17. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV receiver, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING



### 18. Servicing

Do not attempt to service this TV receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### 19. Damage Requiring Service

Unplug this TV receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the TV receiver.
- If the TV receiver has been exposed to rain or water.
- If the TV receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV receiver to its normal operation.
- If the TV receiver has been dropped or the cabinet has been damaged.
- When the TV receiver exhibits a distinct change in performance — this indicates a need for service.

### 20. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

### 21. Safety Check

Upon completion of any service or repairs to this TV receiver, ask the service technician to perform safety checks to determine that the TV receiver is in safe operating condition.

#### ►Warning:

Do not leave stationary images, such as stock market reports, video games, station logos, or the TV's displays, on-screen for more than 10 minutes. Still patterns such as these can scar the picture tube, causing permanent damage to the TV.



# Welcome to Mitsubishi

Congratulations on your purchase of this Mitsubishi TV. Your TV is designed for superb viewing pleasure as well as continued reliability.

To familiarize you with your TV and owner's guide, we suggest that you read through the preface, which provides the following important information:

- ◆ **Summary of Special Features**
- ◆ **Unpacking Your TV**
- ◆ **What's in Each Chapter**
- ◆ **Some Conventions Used in this Guide**

Mitsubishi has designed your TV to bring you years of viewing enjoyment. Similarly, your owner's guide is designed to be user friendly, providing guidance to help you take advantage of all of your equipment features.

Thank you for selecting our product and once again, welcome to Mitsubishi!

## ◆ Summary of Special Features

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Your top rated Mitsubishi TV delivers:

- **181-Channel Capacity** --- programs up to 181 channels.
- **Illuminated Multibrand Remote Control with TV/VCR/DVD/AUDIO Control** --- uses a single remote control transmitter to operate the TV, selected Mitsubishi VCRs, DVD player and audio components, as well as certain VCRs and cable boxes from other manufacturers.
- **ViewPoint® On-Screen Operating System** --- simplifies the TV's features with easy-to-follow instructions.
- **Front Reflective Surface Mirror** --- provides sharper and brighter pictures by reflecting all light from the front surface.
- **Digital Dynamic Comb Filter** --- creates a smooth, continuous picture texture, by comparing the individual scanning lines with those directly above and below.
- **Color Temperature Control** --- Provides 3 choices, including a precise 6500°K setting.
- **Intelligent Room Illumination Sensor (IRIS)** ---automatically adjusts the brightness and contrast for an optimum picture at all times.
- **5-Point Digital Convergence** --- allows you to finely adjust the convergence at 5 positions.
- **Closed Caption Decoder** --- decodes hidden text information included with TV programs and displays the text on-screen.
- **Extended Data Services** --- (also known as "XDS"), allows broadcasters to supply you with channel information, program information, and the time of day.
- **2-Tuner Picture-in-Picture Mode** --- allows you to view two different broadcasts at the same time without using a VCR tuner.
- **Expanded Sound Capability** --- allows you to connect the TV to an external audio system for enhanced listening pleasure. Also, includes **Level Sound** to equalize volume level of programs and channels.
- **Active A/V Network** --- allows you to perform many of the commonly used features of your TV and selected Mitsubishi VCRs by pressing a single button.



## ◆ Unpacking Your TV

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### What you will find

As you unpack your new TV, please check to be sure the following items are included:

- an owner's guide containing a warranty
- a registration card
- a remote control transmitter
- a set of two AAA size batteries for the remote control
- an Active A/V Network cable

### A few suggestions

Before you hook up your new TV, please take a few minutes to:

- ① Complete the registration card. The registration card asks for the serial number of the TV. You will find this on the back of the unit.
- ② Keep the box and packing materials for future use.
- ③ File your sales receipt in a safe place. (It may be required for warranty service.)
- ④ Place the TV on a stable surface with sufficient lighting to do the hook-up.

## ◆ What's in Each Chapter

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Here's what you will find in this owner's guide:

**Chapter 1, *Getting to Know Your TV***

Introduces you to the location and functions of buttons and controls of your TV

**Chapter 2, *Connecting Your TV***

Provides directions for connecting a VCR, antenna, cable box and other equipment to your TV

**Chapter 3, *Operating Your TV***

Step-by-step instructions for using your TV

**Chapter 4, *Using the Special Features***

Guidance for enjoying the unique functions of your Mitsubishi TV

**Chapter 5, *Troubleshooting***

Summary of problems you might encounter and suggestions for resolving them

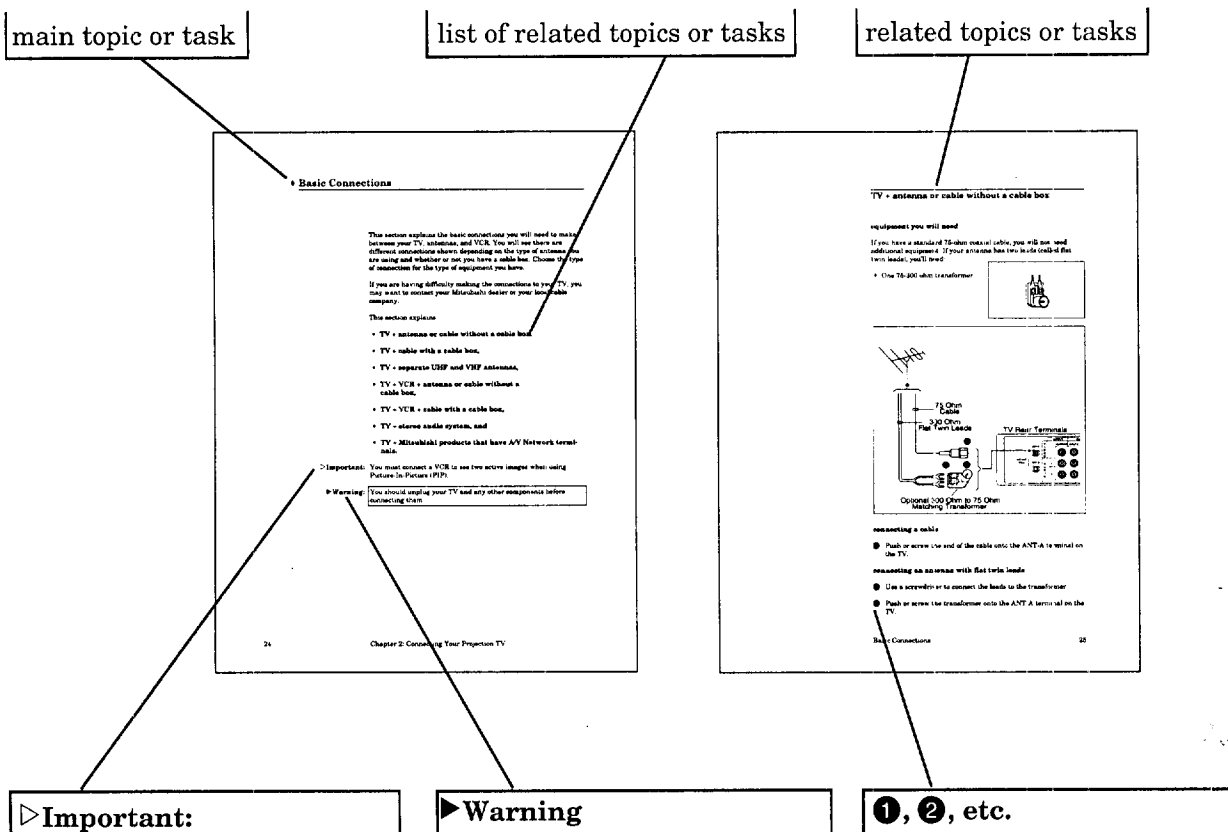
The appendix explains the procedure for bypassing the parental lock.

You will also find a detailed index at the back of the book.

# ◆ Some Conventions Used in this Guide

Mitsubishi has gone to great effort to provide you with an easy-to-follow, useful owner's guide. You will find that different types of information are treated in different ways.

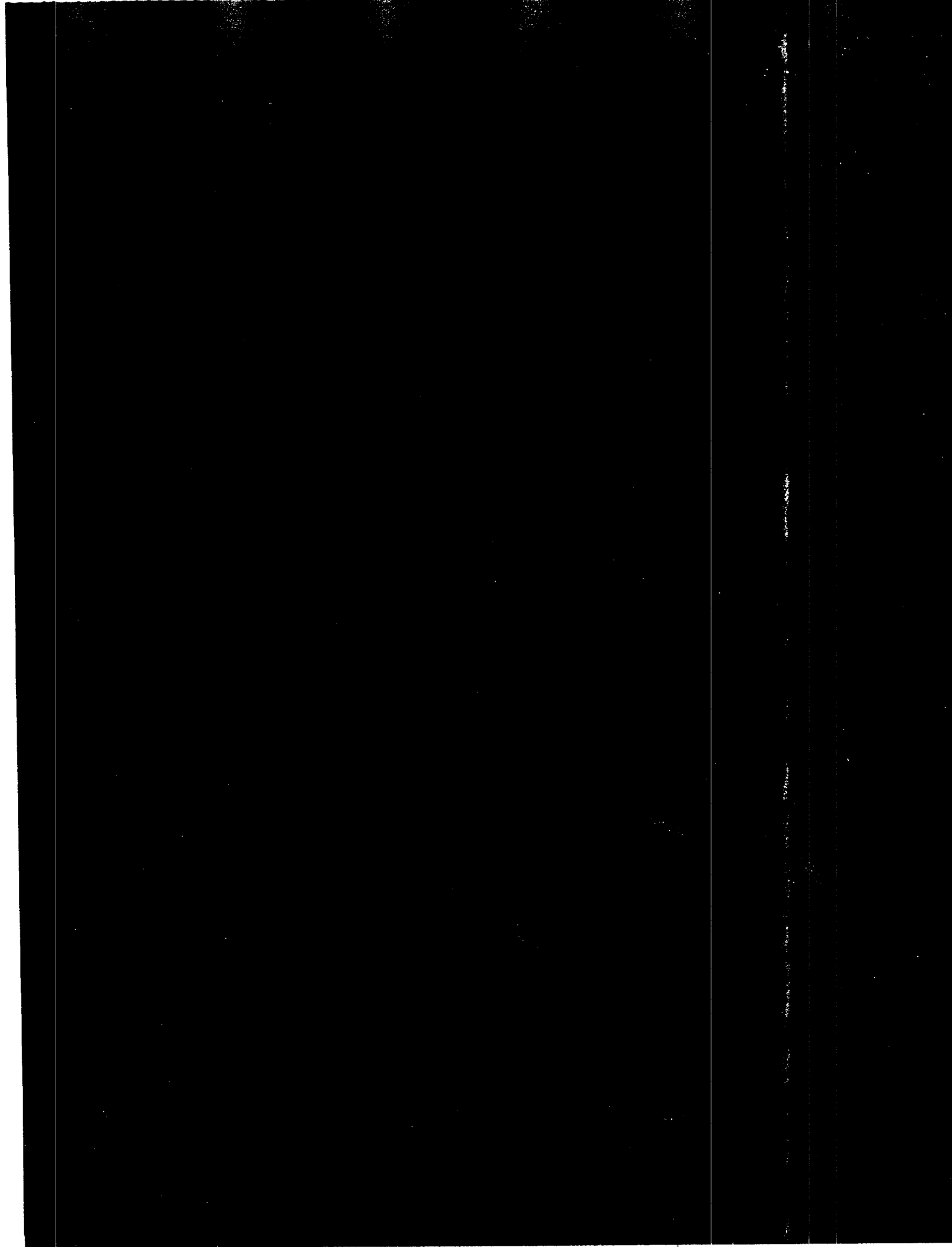
You should pay particular attention to topics bulleted by a red arrow and either an **Important** or a **Warning** label. These terms are used sparingly in the owner's guide. They are intended to highlight information which should be carefully read.



▷ **Important:**  
This cue indicates information critical to the operation of your new TV.

▶ **Warning**  
This cue alerts you to information describing dangerous situations that could damage your equipment or cause electrical shock.

①, ②, etc.  
The step-by-step instructions on how to accomplish a particular task are signaled by white numbers on a black background.



Faint, illegible vertical text or markings along the right edge of the dark area, possibly bleed-through from the reverse side of the page.

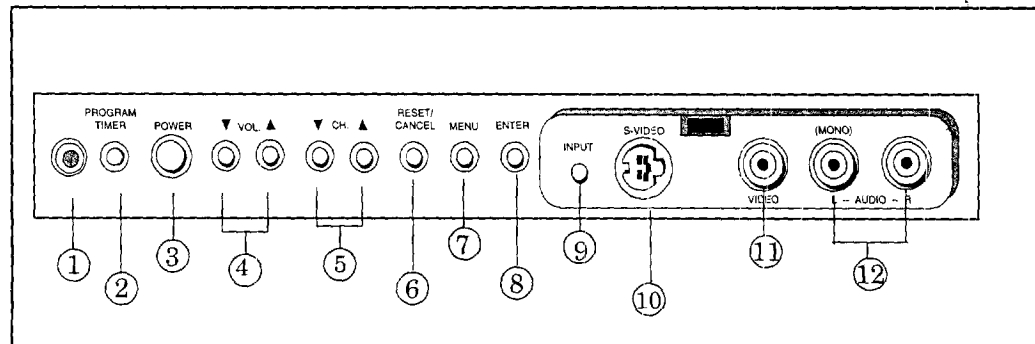


Now that you have unpacked your TV, read through the safety information and glanced at the overview of how this owner's guide is organized, it's time to become familiar with the buttons and controls you will be using when you operate the TV. This chapter will introduce the range of options available when using the buttons on the remote control or on the TV's control panel. It also offers some general guidelines for using the remote control.

Most functions can be controlled by using either the control panel or the remote control, but certain specialized functions require the use of one or the other. This chapter, which will familiarize you with the full range of button functions, contains the following sections:

- ◆ **Overview of the Control Panel**
- ◆ **Overview of the Remote Control**

## ◆ Overview of the Control Panel



① **intelligent room illumination sensor (IRIS)**

This is the sensor which regulates the automatic contrast and brightness adjustment for the IRIS feature. Instructions for user access and use of IRIS are detailed in Chapter 3, *Customizing the A/V memory*.

② **program timer indicator (PROGRAM TIMER)**

This indicator lights up in green when you turn the TV on. It blinks in green when the *on* timer is set and the TV's power is off.

③ **power button (POWER)**

Use to turn the TV on or off.

④ **volume controls (VOLUME ▲ ▼)**

Press the ▲ button to increase the volume and the ▼ button to decrease the volume.

⑤ **channel controls (CHANNEL ▲ ▼)**

Use the ▲ button to switch to a channel with a higher number and the ▼ button to switch to a channel with a lower number. Also use this button to adjust the alignment in the "Convergence" menu.

⑥ **reset/cancel button (RESET/CANCEL)**

Can be used as CANCEL when using an on-screen menu and as AV RESET in normal TV viewing.

(CANCEL) This button is used to clear the settings of some on-screen menus.

(AV RESET) Press to reset all audio and video functions to their original factory adjustments or setting except for volume, the "Listen to" function (Stereo/SAP/Mono), speaker (off/on), monitor out (variable/fixed), back ground (black/gray) and closed captioning.

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## Overview of the Control Panel (cont.)

- ⑦ **menu button (MENU)**  
Use this button to display the on-screen menu system, which contains additional instructions for special functions.
- ⑧ **enter button (ENTER)**  
Use this button after selecting an item from the on-screen menu system. It is also used with the PIP button.
- ⑨ **input button (INPUT)**  
Use to select the input source you wish to view:
  - TV channels on Antenna A (Ant-A) or Antenna B (Ant-B) and /or
  - other equipment connected to Input 1, 2 or 3.
- ⑩ **S-video input terminal**  
Use to connect the S-video output of a camcorder or other component to the TV. If you connect an S-video cable to this terminal, the adjacent video input terminal cannot be used.
- ⑪ **video input terminal**  
Use to connect the video output from a standard camcorder or other component to the TV.
- ⑫ **audio input terminals**  
Use to connect the audio output from a camcorder or other component.

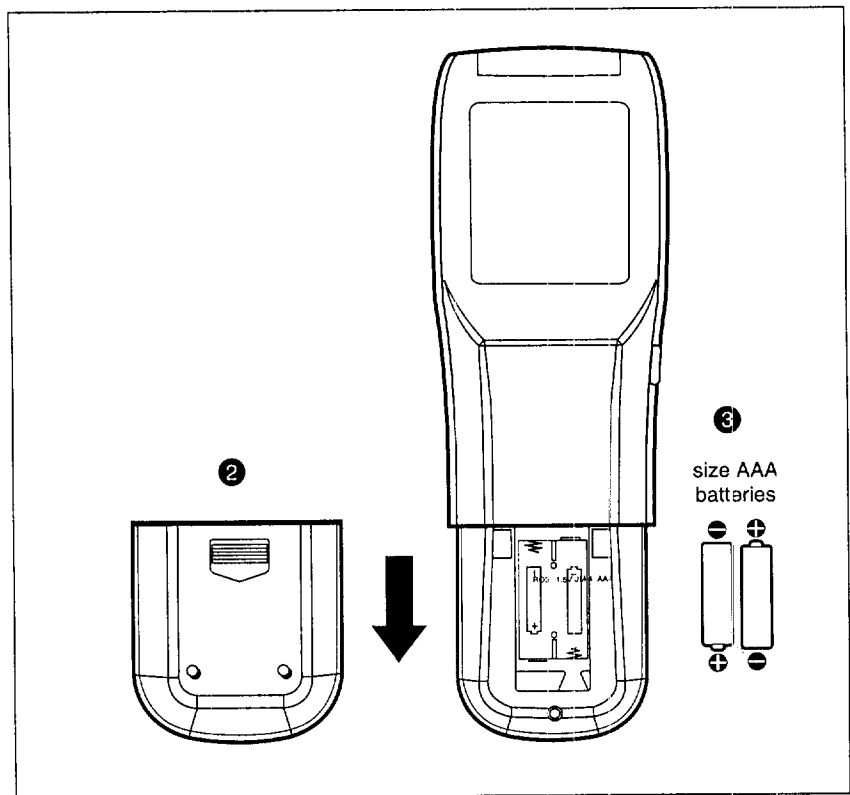
## ◆ Overview of the Remote Control

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### Getting ready to use the remote control

#### installing the batteries

- 1 Take the two AAA size batteries from the packing bag.
- 2 Remove the back cover of the remote control by pushing the tab in the direction of the arrow and lifting off the cover.





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## Getting ready to use the remote control (cont.)

### some do's and don'ts

To ensure that your remote control will continue working properly, follow these guidelines:

- Don't press two or more buttons at the same time, unless you are specifically instructed to do so in this owner's guide.
- Don't allow the remote control to get wet or become heated.
- Avoid dropping the remote control on a hard surface.
- When cleaning the remote control, don't use any harsh chemicals. Use only a soft, slightly moistened cloth.

### general instructions

When using the remote control to operate the TV, VCR, DVD, or AUDIO equipment, follow these procedures:

- ❶ Be within 20 feet of the equipment.
- ❷ Point the tip of the remote control toward the equipment.
- ❸ Press the appropriate button or sequence of buttons.

### guidelines for using batteries

- Don't use a new battery with an old one.
- Don't heat, take apart, or throw batteries into a fire.
- Load the batteries as indicated in the illustration, making sure that they are positioned correctly (+ to +, and - to -).
- Replace the back cover of the remote control.

For best results, use Duracell\* AAA (MN2400) batteries.

*\*Duracell is a registered trademark of Duracell, Inc.*

## ◆ Remote Control Buttons and Functions

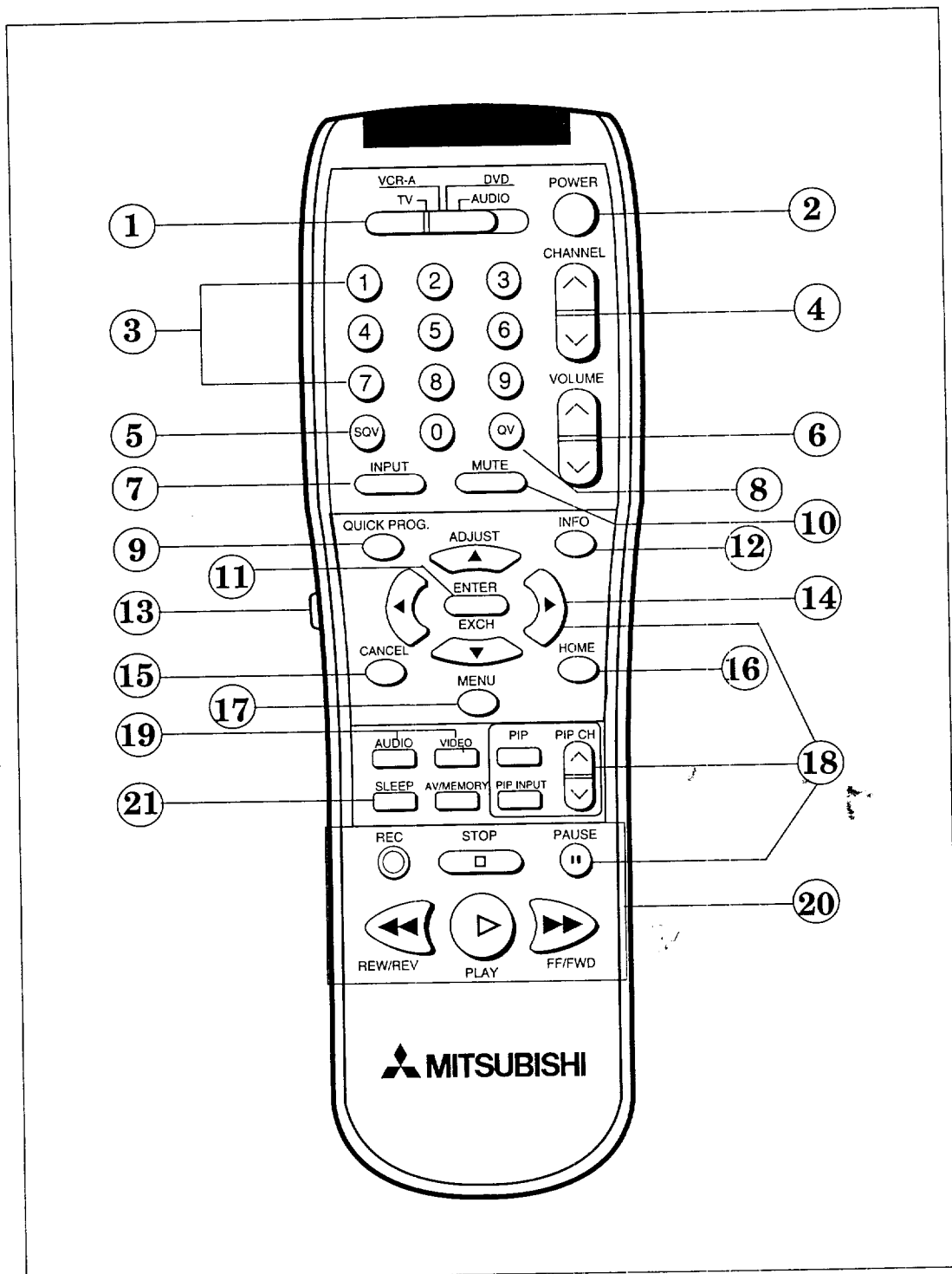
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This section provides you with an overview of the remote control's buttons and the features that they control.

This section does not provide detailed explanations on the use of these buttons. To determine which buttons are used with a particular feature, refer to the instructions for that feature.

The instructions for individual features are found in Chapter 3, *Operating Your TV* and Chapter 4, *Using the Special Features*.

## Remote control buttons and functions (cont.)



Overview of the Remote Control

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## Remote control buttons and functions (cont.)

- ① **select switch**  
Your remote control has four layers: the TV layer, the VCR-A layer, the DVD layer, and the AUDIO layer. You can set up each of these layers to operate a different piece of equipment. Use this switch to select the layer you want to set up or use.
- ② **power button (POWER)**  
Press this switch to turn the TV on or off.
- ③ **number buttons (0-9)**  
Use to select a channel number or to enter a parental lock code.
- ④ **channel control (CHANNEL)**  
Press the top part of the button to change to a channel with a higher number; press the bottom part to change to a channel with a lower number.
- ⑤ **SuperQuickView™ button (SQV)**  
Press to view channels you have programmed into SuperQuickView™ memory.
- ⑥ **volume control (VOLUME)**  
Press the top part of the button to increase the volume. Press the bottom part of the button to decrease the volume.
- ⑦ **input button (INPUT)**  
Use to select the input source you wish to watch:
  - TV channels on Antenna A or Antenna B
  - Other equipment connected to Input 1, 2, or 3.
- ⑧ **QuickView™ button (QV)**  
Press this button to instantly switch to the channel that you designated as the Quick View™ channel. Press again to return to the last channel viewed.
- ⑨ **QuickProgram (QUICK PROG.)**  
Use this button to directly display the VCR menu for recording or to return to your TV from QUICK PROG. recording. You must be in the VCR layer.  
▷ **Important:**  
You must connect a Mitsubishi VCR to your TV with an AV Network cable to use this feature and both your TV and VCR must be set to the active system one setting.
- ⑩ **mute control (MUTE)**  
Use to turn the sound off completely or to restore it to its original volume.
- ⑪ **enter/exchange button (ENTER/EXCH)**  
Use this button after selecting a channel number, after selecting an item from the on-screen menu system, or with the picture-in-picture mode.
- ⑫ **information button (INFO)**  
Use to view an on-screen summary of the current settings for the TV or AUDIO functions and the display related to Extended Data Services (XDS).
- ⑬ **light button**  
Use to light up the remote (for 3 seconds).
- ⑭ **adjust buttons (▲ ▼ ◀ ▶)**  
After selecting an audio or video function, use these buttons to adjust the sound or picture. Also use these with the picture-in-picture mode and to select items in the menus.
- ⑮ **cancel button (CANCEL)**  
This button is used to cancel a channel number, to clear a channel programmed into SuperQuickView™ memory, and to clear the settings of some on-screen menus.

---

## Remote control buttons and functions (cont.)

### ⑯ home button (HOME)

Press to return to regular TV viewing from the on-screen menus, to turn off the on-screen displays, and to cancel the closed captioning.

### ⑰ menu button (MENU)

Use this button to display the on-screen menu system, which contains additional instructions for special functions.

### ⑱ picture-in-picture controls

Use to control the special picture-in-picture (PIP) function. (See *Using the Picture-In-Picture (PIP) Modes* in Chapter 4.)

- **PIP button (PIP)** -- Press to turn on the PIP image, to change its size, or to cancel it. The button is also used with the Active A/V Network feature (See *Using the Active A/V Network Feature* in Chapter 4.)
- **PIP channel button (PIP CH)** -- Press to change the channel of the PIP image
- **PIP input button (PIP INPUT)** -- Press repeatedly to switch the source of the PIP image between the TV and the external inputs.
- **pause button (PAUSE)** -- Press to freeze the reduced PIP image and to return to a "live" image.
- **exchange button (EXCH)** -- Press to exchange the pictures of the PIP image and the main image.
- **adjust buttons (▲ ▼ ◀ ▶)** -- Press to move the PIP image on-screen.

### ⑲ audio and video controls

Use the AUDIO button or VIDEO button to select one of the settings listed below.

#### • audio function button (AUDIO)

- stereo/SAP/mono
- bass
- treble
- balance
- surround off/simulate/hall
- speaker off/on
- monitor out variable/fixed
- level sound off/on

#### • video function button (VIDEO)

- tint
- color
- contrast
- brightness
- sharpness
- color temperature low/middle/high
- background black/gray
- light sensor off/on

#### • audio video memory (A/V MEMORY)

Use this button for immediate access to A/V memory controls.

### ⑳ VCR and audio product function buttons

Use these buttons to control VCRs, cassette decks, CD players, etc. These are pre-programmed to operate selected Mitsubishi components. The PLAY button is also used with the Active A/V Network. (See *Using the Active A/V Network Feature* in Chapter 4.)

### ㉑ sleep timer button (SLEEP)

Use to program the TV to turn off automatically at a later time.

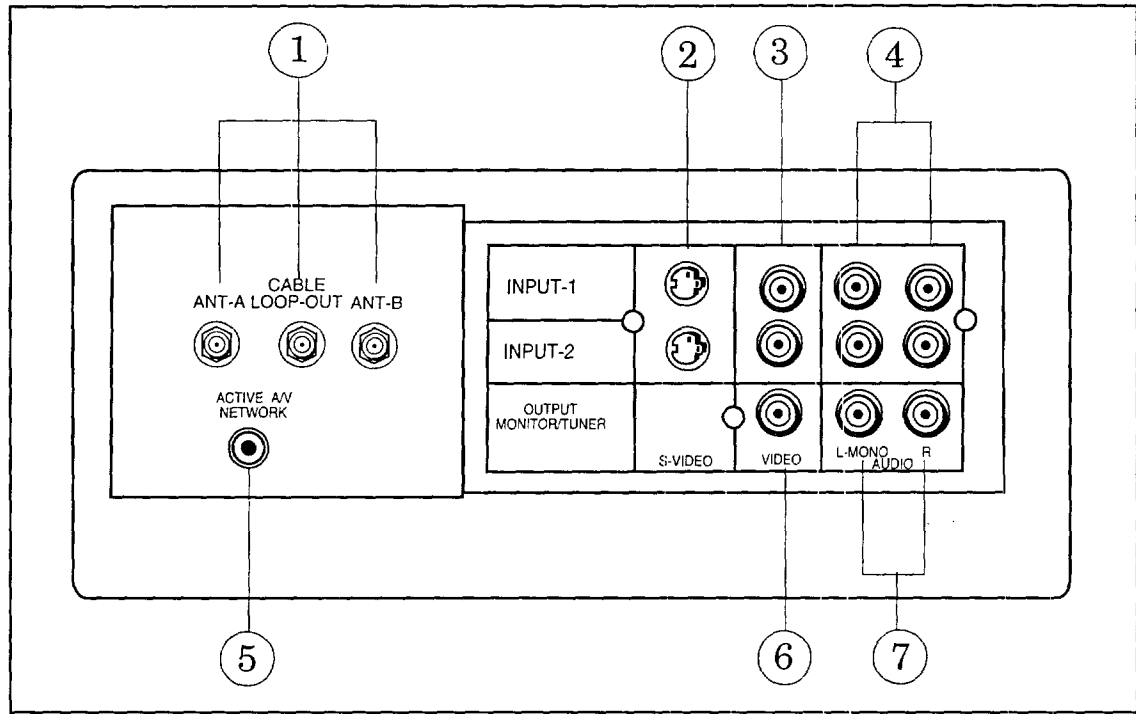
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2022-2023  
2024-2025



This chapter offers step-by-step instructions for completing the most common hook-ups. It contains the following sections:

- ◆ **Overview of the Back Panel**
- ◆ **Basic Connections**

## ◆ Overview of the Back Panel



① **antenna terminals (ANT-A, CABLE LOOP OUT, ANT-B)**

Use ANT-A and ANT-B terminals to receive a signal from VHF/UHF antennas or your cable system. Use the CABLE LOOP OUT Terminal to send the signal being received by the ANT-A terminal out to another component (such as a VCR).

② **S-VIDEO input terminal**

Use these terminals to connect an S-video signal from a Super VHS (S-VHS) VCR or disc player to the TV.

▷ **Important:** If you connect to the S-Video jack, you cannot use the regular video jack for the same input.

③ **video input terminals**

Use these terminals to connect the video output from a VCR or other component to the TV.



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## Overview of the back panel (cont.)

- ④ **audio input terminals**  
Use these terminals to connect the audio output from a VCR or other component to the TV.
- ⑤ **active A/V Network terminal**  
Use this terminal to connect a Mitsubishi VCR that has an active A/V network terminal.
- ⑥ **video monitor/tuner output terminal**  
Use this terminal to send the TV's video signal to an A/V receiver or other equipment.
- ⑦ **audio monitor/tuner output terminals**  
Use these terminals to send the TV's audio signal to an A/V receiver, audio system, or other component.

## ◆ Basic Connections

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This section explains the basic connections you will need to make between your TV, antennae and VCR. You will see there are different connections shown depending on the type of antenna you are using and whether or not you have a cable box. Choose the type of connection for the type of equipment you have.

If you are having difficulty making the connections to your TV, you may want to contact your Mitsubishi dealer or your local cable company.

This section explains the following connections:

- **TV + antenna or cable without a cable box**
- **TV + cable with a cable box**
- **TV + separate UHF and VHF antennas**
- **TV + VCR + antenna or cable without a cable box**
- **TV + VCR + cable with a cable box**
- **TV + stereo audio system**
- **TV + Mitsubishi products that have A/V Network terminals**

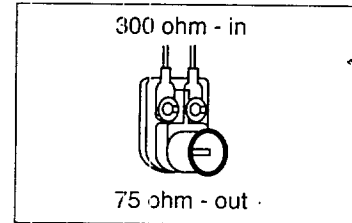
► **Warning:** You should unplug your TV and any other components before connecting them.

## TV + antenna or cable without a cable box

### equipment you will need

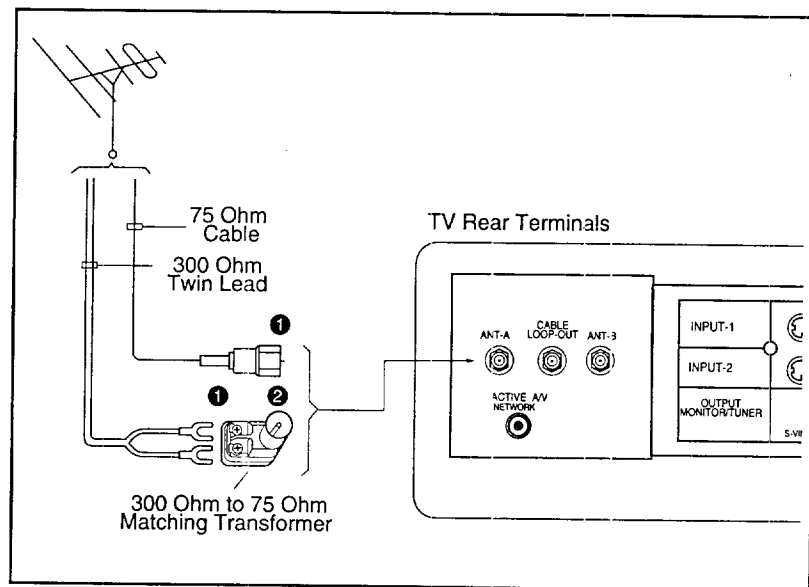
If you have a standard 75-ohm coaxial cable, you will not need additional equipment. If your antenna has two leads (called twin lead or 300 ohm antenna lead), you will need to acquire:

- One 300-75 ohm matching transformer



### connecting a cable

Push or screw the end of the cable onto the ANT-A terminal on the TV.



### connecting an antenna with twin leads

- ① Use a screwdriver to connect the 300 ohm twin leads to the transformer.
- ② Push the 75 ohm side transformer onto the ANT-A terminal on the TV.

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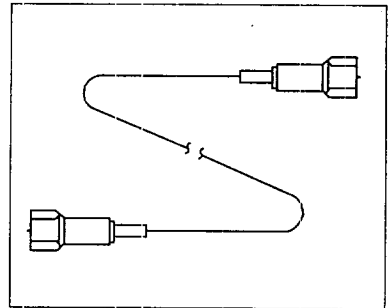
## TV + cable with a cable box

### equipment you will need

Use this hook-up if you do not need a cable box to descramble basic cable channels, but you do need a cable box to descramble premium cable channels. This hook-up will allow you to use your TV's advanced channel changing features, such as SuperQuickView™, while watching basic cable channels on Antenna-A.

To complete the hook-up, you'll need:

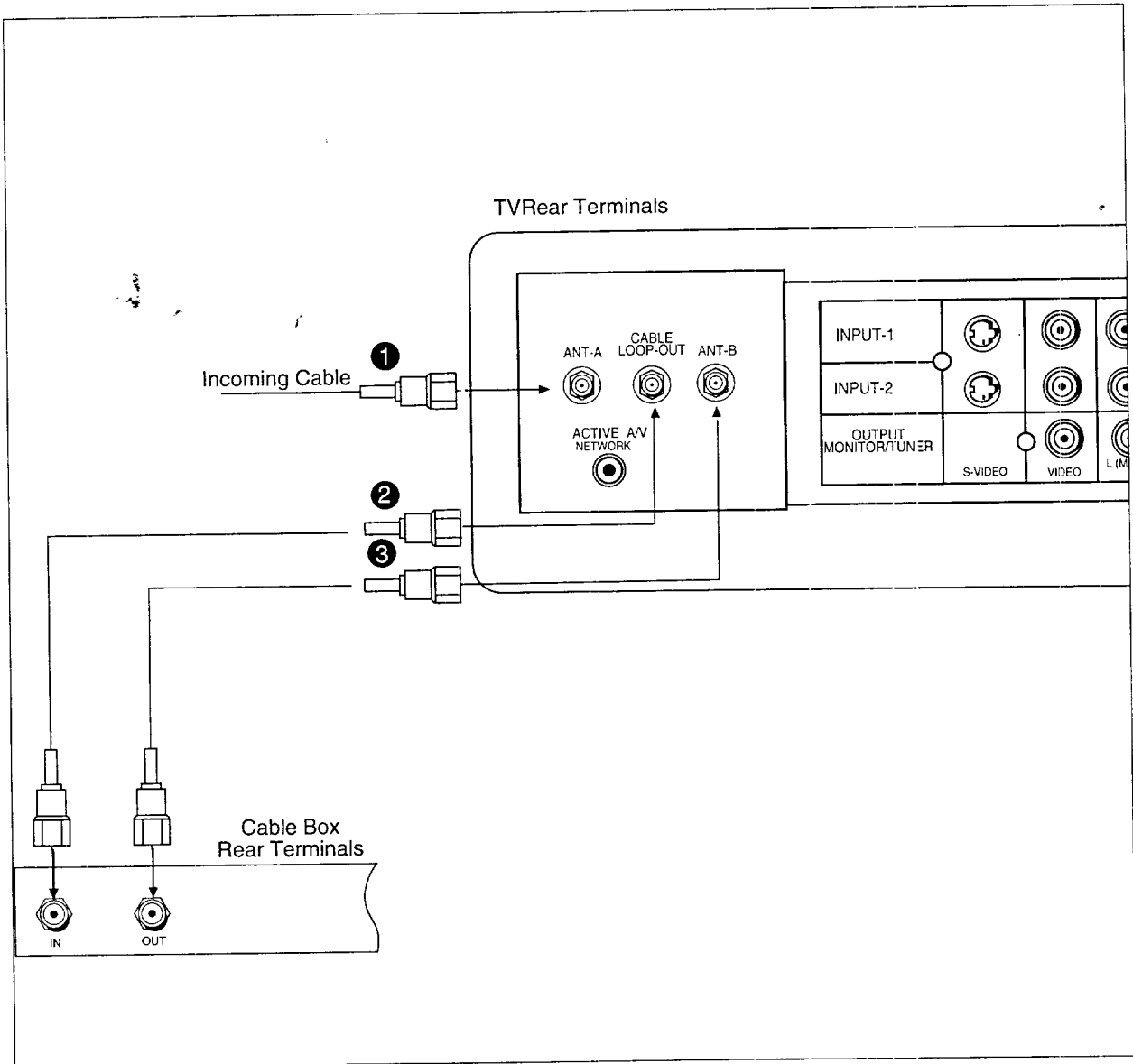
- two lengths of 75 ohm coaxial cable



### procedure

- ❶ Connect the cable system's incoming cable to the Ant-A terminal on the back of the TV.
- ❷ Connect a coaxial cable between the CABLE LOOP-OUT terminal on the back of the TV and the IN terminal on the back of the cable box.
- ❸ Connect the second coaxial cable between the OUT terminal of the cable box and the Ant-B terminal on the back of the set.

## TV + cable with a cable box (cont.)



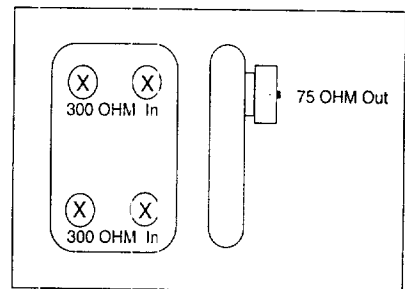
## TV + separate UHF and VHF antennas

### equipment you will need

If UHF and VHF signals are brought into your home with two separate antennae, you'll need to combine them in order to connect them to the TV. To do this you will need a UHF/VHF combiner. (There are different combiners for different kinds of wires. Check with your local electronics store for the kind of combiner you need.)

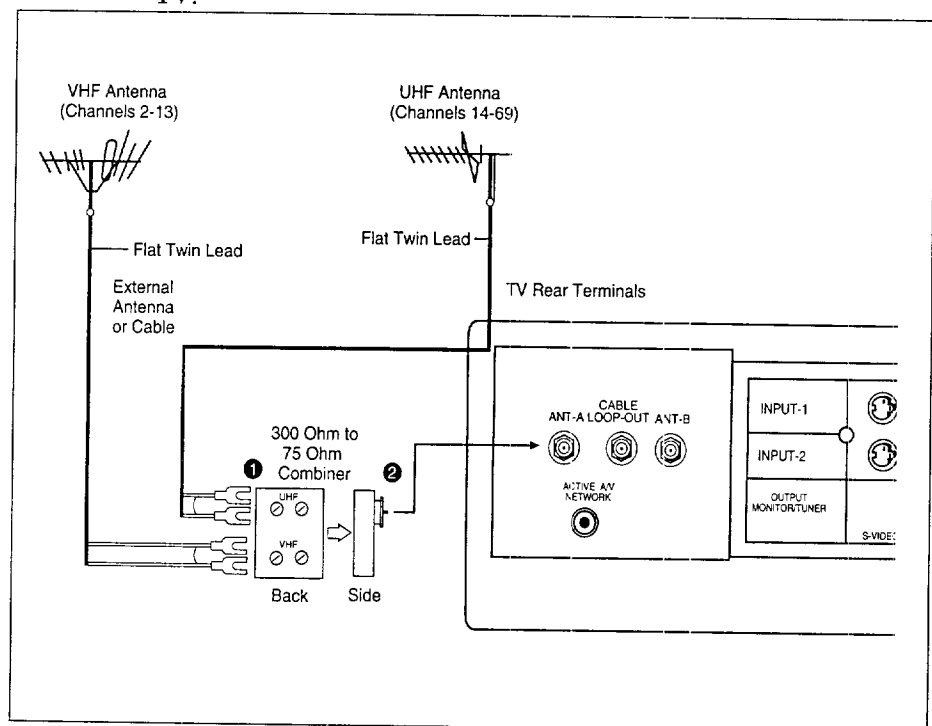
- Pictured to the right is a standard combiner.

(2 each, 300 ohm inputs;  
1 each, 75 ohm output)



To connect separate UHF and VHF antennae to your TV:

- 1 Connect the UHF and VHF antenna leads to the appropriate terminals on the UHF/VHF combiner.
- 2 Press the combiner onto the ANT-A terminal on the rear of the TV.



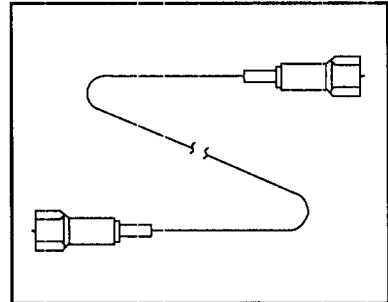
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## TV + VCR + antenna or cable without a cable box

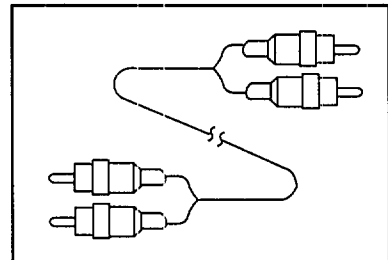
### equipment you will need

You may want to connect a VCR along with your antennas or cable. To complete this hook-up, you may need the following equipment:

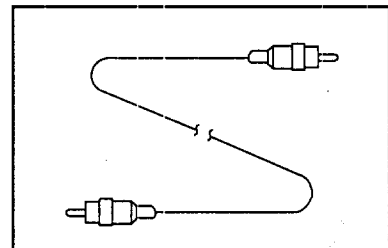
- One 75 ohm coaxial cable



- One set of RCA pin-type audio cables

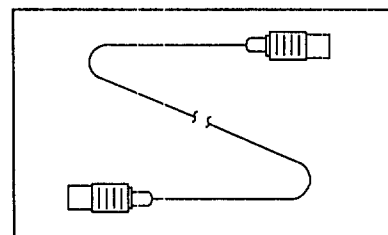


- One RCA pin-type video cable, (if connecting a standard VCR)



OR

- One S-Video cable for Super VHS VCRs



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## TV + VCR + antenna or cable without a cable box (cont.)

### procedure

- ❶ Connect the incoming cable or antenna to the ANTENNA\_IN terminal on the VCR.
- ❷ Connect one end of a coaxial cable to the ANTENNA\_OUT terminal on the VCR.
- ❸ Connect the other end of the coaxial cable to the ANT-A terminal on the TV.
- ❹ Connect an RCA pin-type video cable to the VIDEO\_OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO\_INPUT terminal on the back of the television.

▷ **Important:** If you are connecting a Super VHS (S-VHS) VCR, use an S-Video cable instead of an RCA pin-type video cable. Connect this S-Video cable to the S-VIDEO\_OUT terminal on the VCR. Connect the other end of this cable to the S-VIDEO\_INPUT terminal on the back of the TV.

- ❺ Connect a set of RCA pin-type audio cables to the AUDIO\_OUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable for connecting the left (L) channel.
- ❻ Connect the other ends of this cable to the AUDIO\_INPUT terminals on the back of the TV.

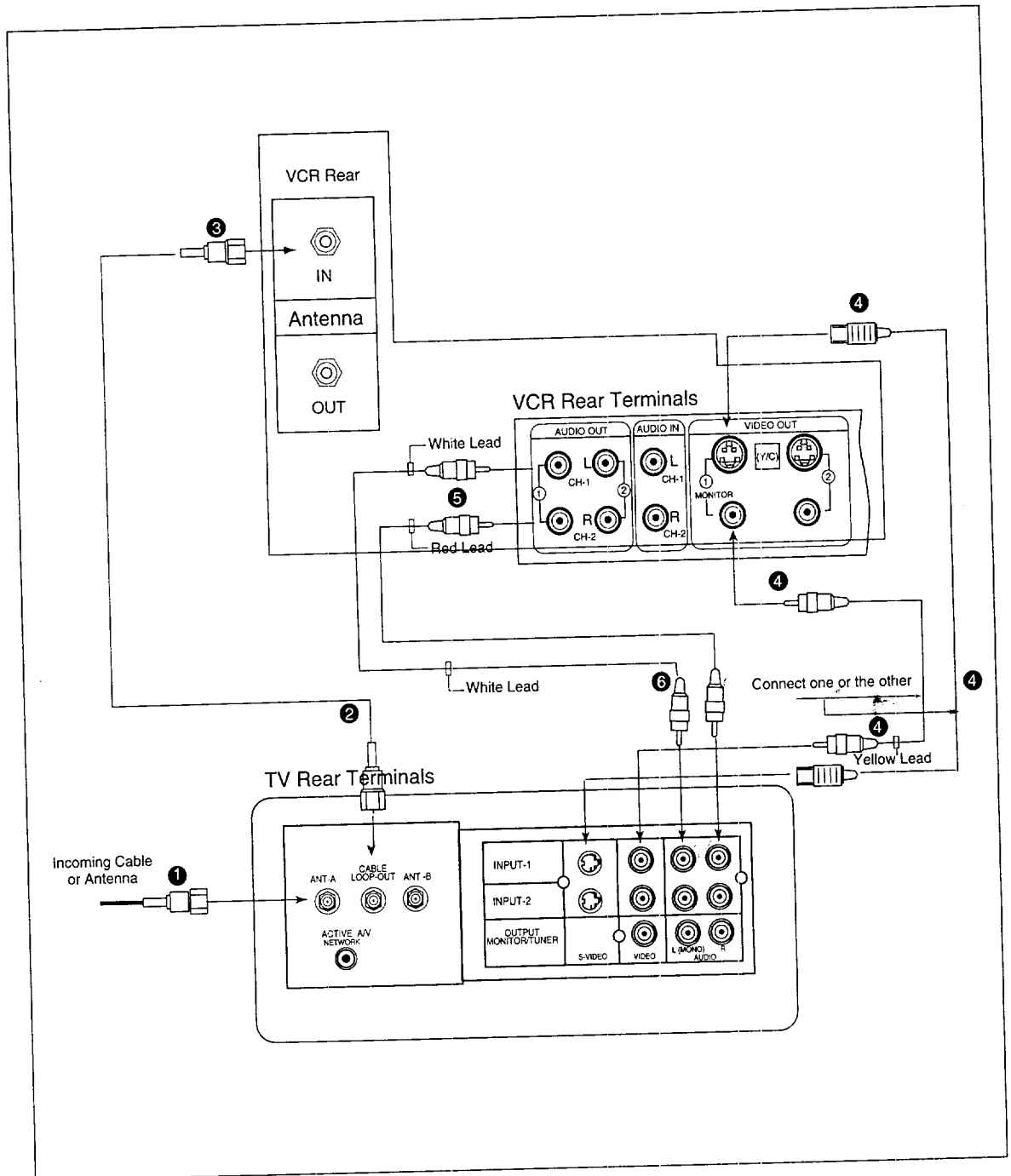
▷ **Important:** If your VCR is monaural (non-stereo), you only need to connect a single RCA pin-type audio cable. Connect the cable to the VCR, then connect the other end to the L (LEFT) audio input on the back of the TV.

▷ **Important:** If your VCR has a video channel switch, set it to "OFF/AV". See your VCR's owner's guide for details.

- ❼ Start playing a tape on your VCR.
- ❽ Use the INPUT button on your TV's remote control to select the correct input. If you connected the VCR to INPUT-1, select Input-1; if you connected the VCR to INPUT-2, select Input-2.



**TV + VCR + antenna or cable without a cable box  
(cont.)**



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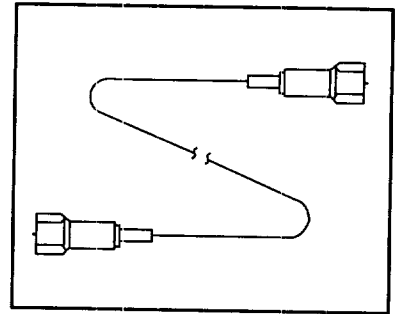
## TV + VCR + cable with a cable box

### equipment you will need

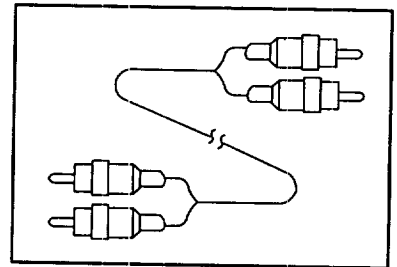
This hook-up will allow you to record scrambled channels while viewing another channel.

To complete the hook-up, you will need:

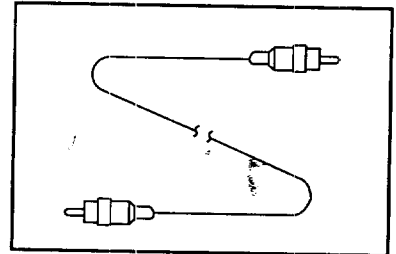
- Three lengths of 75 ohm coaxial cable



- One set of RCA pin-type audio cables

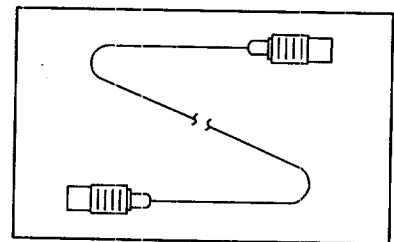


- One RCA pin-type video cable (if connecting a standard VCR)



OR

- One S-Video cable for Super VHS VCRs



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## TV + VCR + cable with a cable box (cont.)

### procedure

(See illustration on the following page.)

- ❶ Connect the incoming cable to the ANT-A terminal on the back of the TV.
- ❷ Connect a coaxial cable from the cable LOOP-OUT terminal on the back of the TV to the cable box IN terminal.
- ❸ Connect a second coaxial cable from the OUT terminal on the cable box. Connect the other end of this cable to the ANTENNA-IN terminal on the back of the VCR.
- ❹ Connect the third coaxial cable from the OUT terminal on the back of the VCR to the ANT-B terminal on the back of the TV.
- ❺ Connect an RCA pin-type video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the TV.

▷ **Important:** If you are connecting a Super VHS (S-VHS) VCR, use an S-Video cable instead of an RCA pin-type video cable. Connect this S-Video cable to the S-VIDEO OUT terminal on the VCR. Connect the other end of this cable to the S-VIDEO INPUT terminal on the back of the TV.

- ❻ Connect a set of RCA pin-type audio cables to the AUDIO OUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable for connecting the left (L) channel.

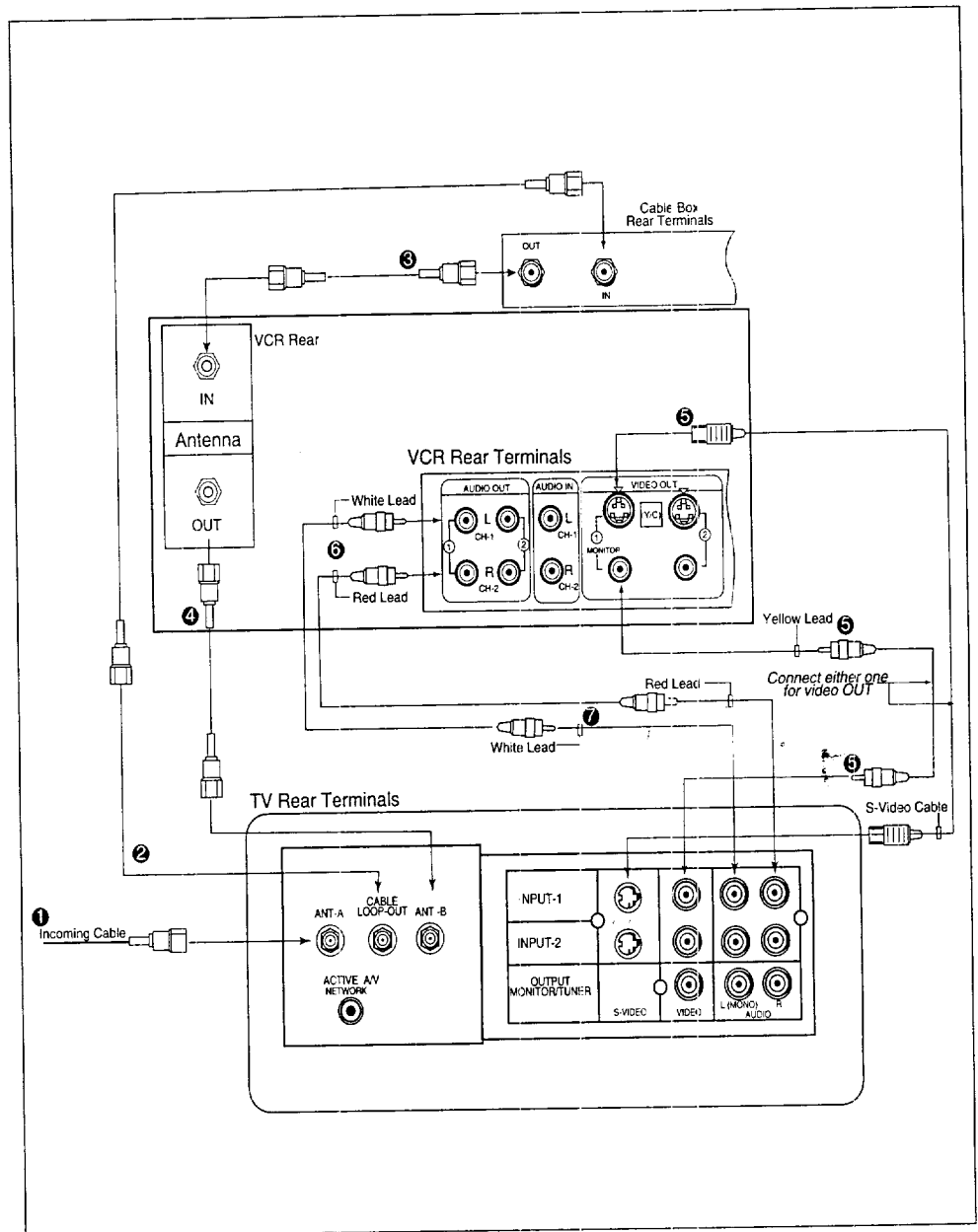
- ❼ Connect the other ends of this cable to the AUDIO INPUT terminals on the back of the TV.

▷ **Important:** If your VCR is monaural (non-stereo), you will only need to connect a single RCA pin-type audio cable. Connect the cable to the audio out terminal of the VCR, then connect the other end to the L (LEFT) audio input on the back of the TV.

▷ **Important:** If your VCR has a video channel switch, set it to "OFF/AV". See your VCR's owner's guide for details.

## TV + VCR + cable with a cable box (cont.)

- 8 Start playing a tape on your VCR.
- 9 Use the INPUT button on your TV's remote control to select the correct input. If you connected the VCR to INPUT-1, select Input-1. If you connected the VCR to INPUT-2, select Input-2.



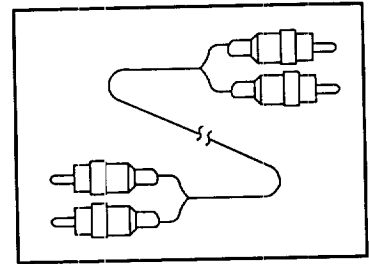
## TV + stereo audio system

You may want to hear the sound from your TV and/or VCR through your home audio system. To do this, complete the necessary connections shown on previous pages of this chapter, then follow the procedure on this page.

### equipment you will need

To hook up an audio system, you will need

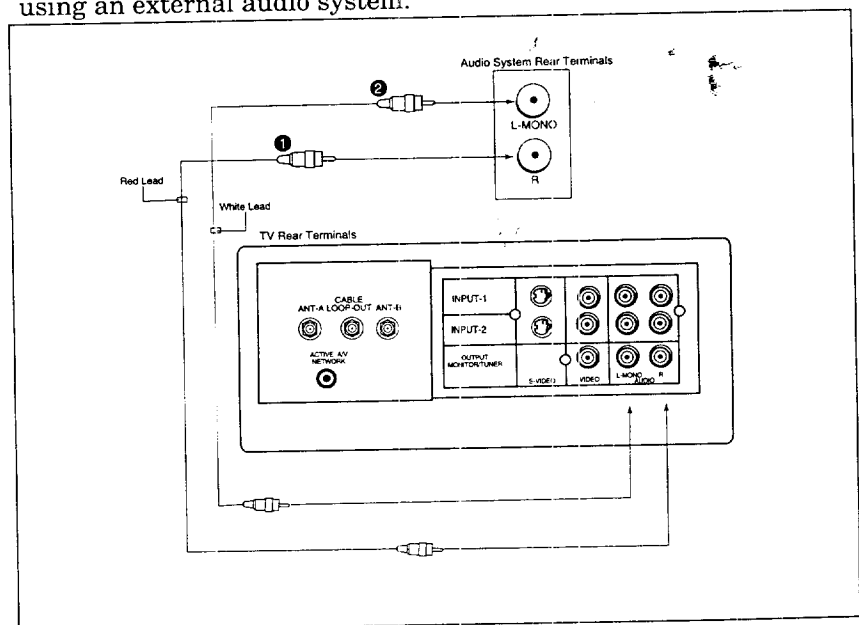
- One set of RCA pin-type audio cables.



### procedure

- 1 Connect the audio cables to the AUDIO MONITOR OUTPUT terminals on the back of the TV. Use the red cable to connect the right (R) channel and the white cable to connect the left (L) channel.
- 2 Connect the other ends of these cables to the AUX IN terminals on the back of the audio system.
- 3 Turn off the television's speakers. To do this, press the AUDIO function button on the remote control until you see the SPEAKER display. Set the speakers to "Off" by pressing either the ADJUST right (▶) or the ADJUST left (◀). (See *Adjusting the Sound*, in Chapter 3.)
- 4 Set the audio system's input to the AUX position.

► **Important:** For proper tone and volume balance, turn off the TV speakers when using an external audio system.



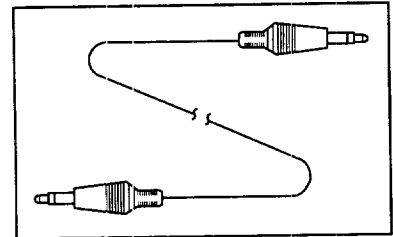
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## TV + Mitsubishi products that have A/V Network terminals

The A/V Network is a special system that Mitsubishi developed to make it easier to use many products with only one remote control. When the supplied cable is connected between two Mitsubishi products with the A/V Network, you can point the remote control at one product and it will “pass” the remote control command to the other.

### equipment you will need

- One A/V network cable (included with the TV)

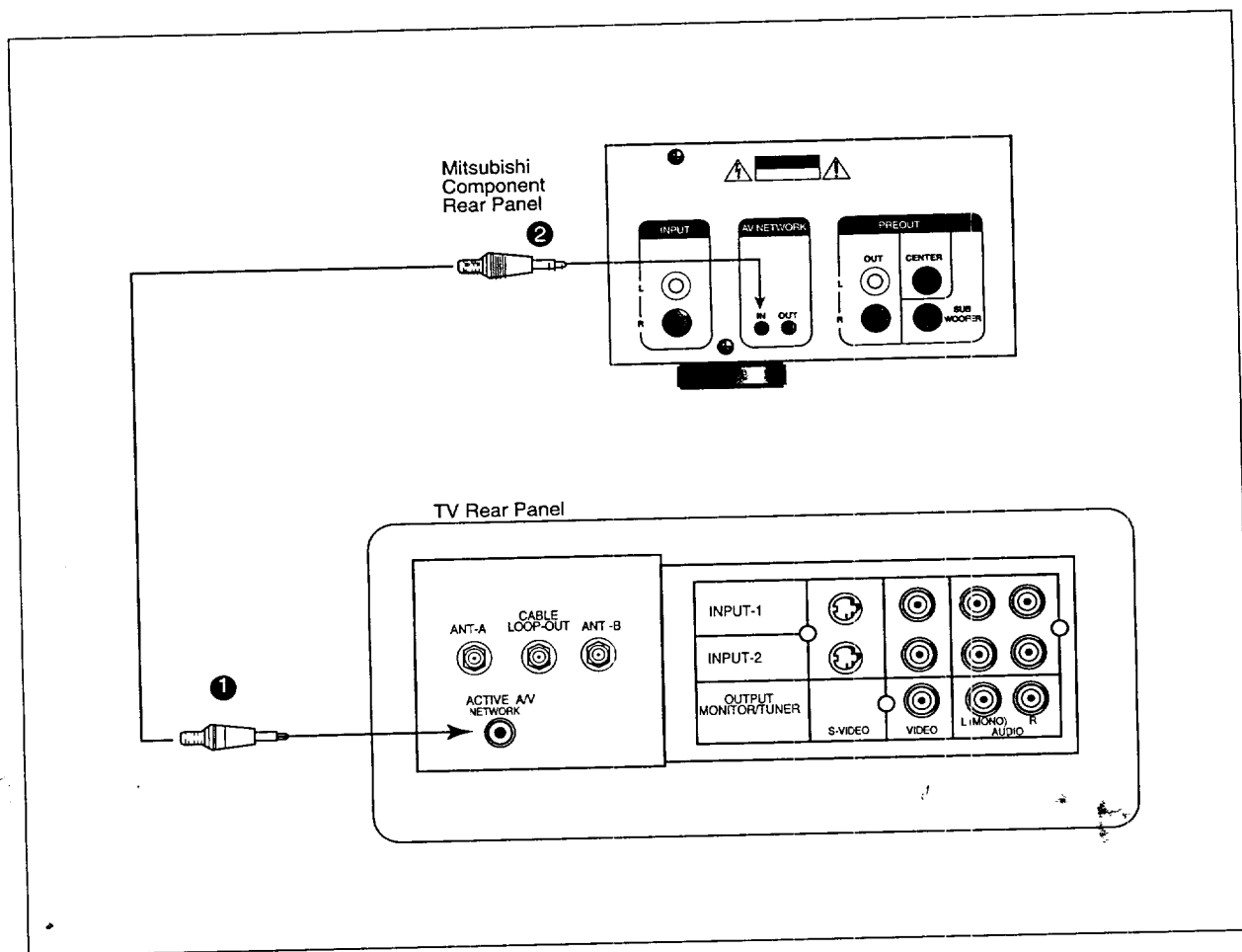


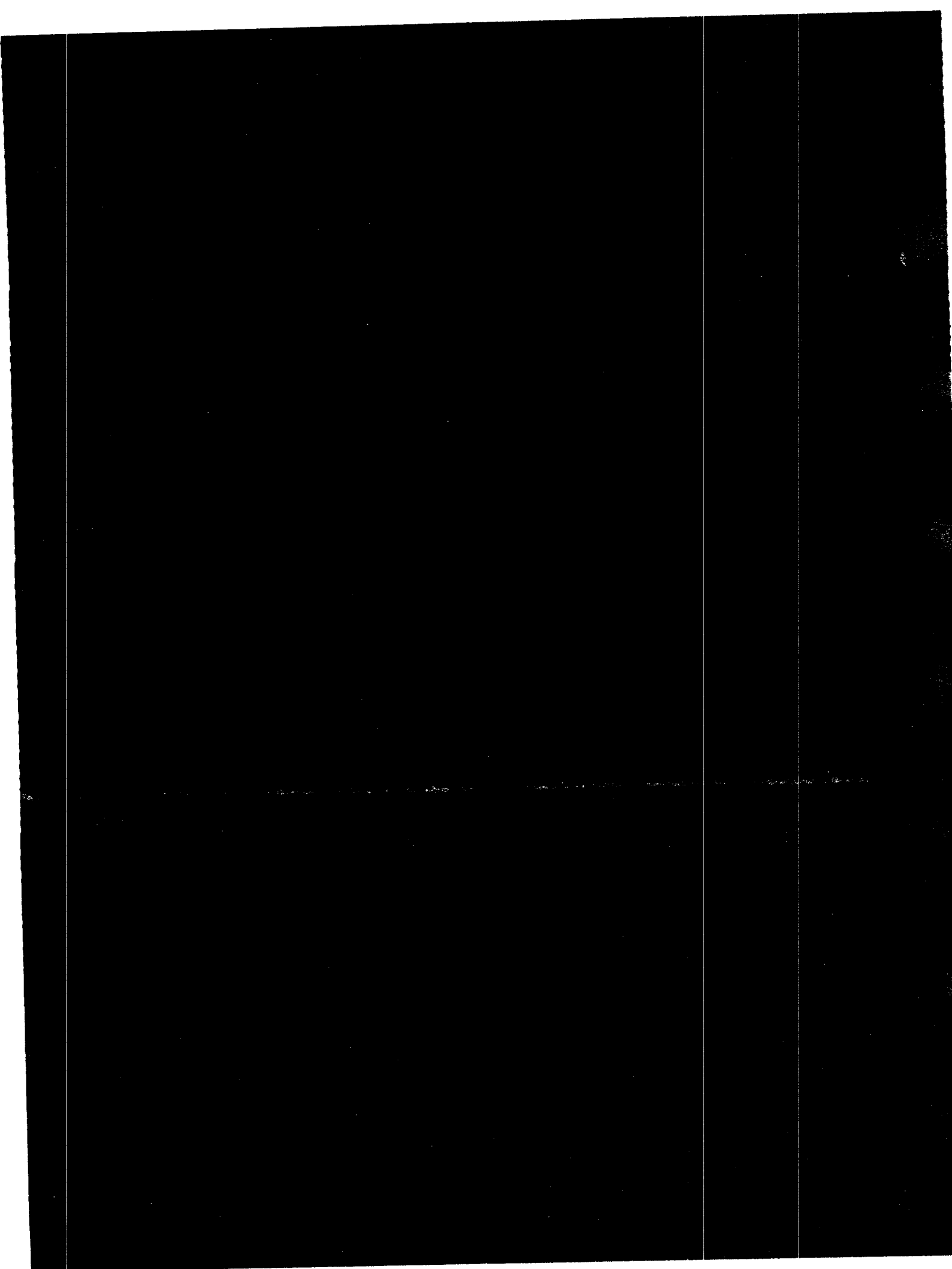
### procedure

- ❶ Connect one end of the A/V network cable to the ACTIVE A/V NETWORK terminal on the back of the TV.
- ❷ Connect the other end of this cable to the A/V NETWORK IN terminal on the back of a Mitsubishi component that has A/V network terminals.
- ❸ You can now use the television remote to control your VCR or other Mitsubishi component. Point the remote directly at the television. The A/V cable will “pass” the remote commands to the component.

▷**Important:** The method of connecting the A/V network can change, depending on which components you have and the way you plan to use your equipment. More detailed information is contained in the owner's guide of each particular Mitsubishi component.

## TV + Mitsubishi products that have A/V Network terminals









Now that your TV is connected to a cable system and/or an antenna and possibly some external components, it's time to enjoy your equipment. This chapter will explain how to operate the TV, first focusing on functions that are basic and easy and then explaining some advanced features.

This chapter explains:

- ◆ **Getting Started**
- ◆ **Using the Advanced Features**

## ◆ Getting Started

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This section is designed to get you started enjoying your new TV. If you follow these procedures one by one, you will soon begin discovering everything your television can do.

You'll find information on:

- **Using the remote control to operate VCRs, cable boxes, and other equipment**
- **Turning the TV on/off**
- **Selecting the input source to watch your VCR or other equipment**
- **Changing channels**
- **Understanding the ViewPoint® on-screen menus**
- **Setting the clock**
- **Memorizing channels**
- **Adding and deleting channels**
- **Setting the A/V network**
- **Adjusting the Convergence**
- **Selecting the menu type**
- **Naming the input**
- **Naming the channels**
- **Using video mute**
- **Selecting the menu language**
- **Selecting the A/V memory position**
- **Customizing the A/V memory position**

---

## Using the remote control to operate VCRs, cable boxes and other equipment

### about your remote control

This TV's remote control has four "layers": the TV layer, the VCR-A layer, the DVD layer, and the AUDIO layer. Each layer can be used to operate a different component in your A/V system. You choose the layer you want to use by setting the "select" switch across the top of the remote control.

When you first receive your remote control, the TV layer is set up to operate your Mitsubishi TV and VCR-A. The DVD layer is programmed to operate your Mitsubishi DVD player and the AUDIO layer is programmed for your Mitsubishi A/V receiver.

You can use the following to operate your TV:

- power button
- pause button
- mute control
- SuperQuickView™ button
- QuickView™ button
- volume control
- input button
- channel control
- enter button
- quick program button
- audio and video controls
- menu button
- cancel button
- information button
- home button
- sleep timer button
- number buttons
- PIP controls
- play button
- AV memory button

If you have a cable box (including the digital satellite box), a non-Mitsubishi VCR, or a Mitsubishi laserdisc player, an A/V receiver, or a compact disc player, you can set up the layers in the remote control to operate these components.

The VCR-A layer can be set up to operate a non-Mitsubishi VCR. The DVD layer can be set to operate a VCR, cable box, digital satellite box, or a Mitsubishi laserdisc player. The AUDIO layer can be set up to operate a cable box, digital satellite box, laserdisc player, or an A/V receiver. The TV layer can be set up to operate the volume control of an A/V receiver.

### setting up the remote control to operate your VCR

- ❶ Turn off your VCR.
- ❷ Set the select switch on the remote to choose the layer you want to set up: VCR-A or DVD.
- ❸ While holding in the POWER button on the remote control, enter the code number listed in the chart on the following page for your brand of VCR. Be sure to enter both digits of the code number. If more than one number is listed, try the first one.

## Using the remote control to operate VCRs, cable boxes and other components (cont.)

If your VCR is this brand..	...enter this code	If your VCR is this brand...	...enter this code	If your VCR is this brand..	...enter this code
Mitsubishi (A)	01	Magnavox	03, 10, 11	Scot	15
Mitsubishi (B)	02	Multitech	06	Sharp	16
Canon	03	NEC	12	Sony	17, 18
Emerson	04, 05	Panasonic	03, 21	Sylvania	03, 10, 11
Funai	06	Philco	03, 10	Symphonic	06
General Electric	03	Philips	03, 10, 11	Teknika	04, 06
Goldstar	07	Quasar	03	Toshiba	15
Hitachi	08	RCA	08, 13, 20	Totevision	07
JVC	09	Sanyo	14	Zenith	19

- 4 Release the POWER button.
- 5 Press the POWER button again. Your VCR should turn on. If the VCR turns on, your remote control is ready to operate your VCR. (See *Using Your Remote Control to Operate Your VCR* in this chapter for remote control VCR functions.)

If your VCR does not turn on, repeat the instructions, trying each code number listed for your brand of VCR. If none of these code numbers work, try each number (01 through 21) individually.

### using your remote control to operate your VCR

After you have set up your remote control for your particular brand of VCR, you can use the remote to operate your VCR.

- 1 Set the select switch on the remote control to the layer that you set up to operate your VCR: VCR-A or DVD.
- 2 Point the remote control at the VCR and press the desired buttons.

If you are using a Mitsubishi VCR, you will be able to use all of the buttons on the remote control to operate your VCR except for MUTE, VOLUME and the PIP function buttons, which will always operate the TV itself.

If you are using another brand of VCR, you can use the POWER, CHANNEL, REC, STOP, PAUSE, REW, PLAY, and FF buttons to operate your VCR.

## Using the remote control to operate VCRs, cable boxes and other components (cont.)

### setting up the remote control to operate your cable box or digital satellite box

- ❶ Turn on your cable box or digital satellite box.
- ❷ Set the select switch on the top of the remote to choose the layer you want to set up: AUDIO or DVD.
- ❸ While holding in the POWER button on the remote control, enter the code number listed in the chart below for your brand of cable box. Be sure to enter both digits of the code number. If more than one number is listed, try the first one.
- ❹ Release the POWER button. (See *Using Your Remote Control to Operate Your Cable Box* in this chapter for remote control cable box functions.)

If your cable box is this brand...	...enter this code	If your cable box/satellite is this brand...	...enter this code	If your cable/satellite box is this brand...	...enter this code
ABC	57, 59, 62, 67, 89	Oak	61, 62, 82	Scientific Atlantic	66, 88, 89, 91, 92
Color Voice	73, 74, 98	Panasonic	63, 70	Signature	57
Comtronics	93	Paragon	51	Sony DSS	47
Gemini	55	Philips	73, 74, 75, 76, 77	Sprucar	63
General Electric	66		93, 94, 98, 99	Starcom	54, 55, 56, 87
General Instruments	55, 56, 57	Pioneer	64, 65, 84	Stargate	55
Hamlin	52, 53, 69	Prime Star	48	Tocom	67, 68, 72
Hitachi	57	Pulsar	51	Toshiba	51
Jerrold	54, 55, 56, 57, 58 59, 60, 85, 87	RCA	63	United Artists	62
Macom	71	RCA DSS	49	United Cable	54
Magnavox	94	Regal	53	Viewstar	93, 94
Memorex	51	Regency	79	Zenith	51
		Samsung	65, 84		

- ❺ Press the POWER button again. Your cable or satellite box should turn off. If the cable or satellite box turns off, your remote control is now set up to operate it. If your cable or satellite box does not turn off, repeat the instructions above, trying each code number listed for your brand of cable or satellite box. If none of these numbers work, try each number, 51 through 99.

▷ **Important:** After setting up your remote, be sure that your cable box can be turned on with the POWER button. Some of the cable boxes can be turned on with the CHANNEL buttons or the number buttons.

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## Using the remote control to operate VCRs, cable boxes and other components (cont.)

### using your remote control to operate your cable box

After you have set up your remote control for your particular brand of cable box, you can use the remote to operate your cable box.

- 1 Use the select switch on the remote control to choose the layer that you set up to operate your cable box: AUDIO or DVD.
- 2 Point the remote control at the cable box and press the desired buttons.

You can use the POWER, CHANNEL, numbers (0–9), and ENTER buttons to operate your cable box. If you are using an RCA DSS or PRIMESTAR® receiver, you may be able to use additional buttons. Refer to the instructions for these devices.

### setting up the remote control to operate your Mitsubishi disc player or A/V receiver

- 1 Turn off your audio component.
- 2 Set the select switch on the top of the remote to choose the layer you want to set up. For a laser disc player, choose AUDIO or DVD. For an A/V receiver, choose TV or AUDIO.
- 3 While holding in the POWER button on the remote control, enter one of these code numbers:
  - For a Mitsubishi A/V receiver or a compact disc player: 30, 31, 35 or 38
  - For a Mitsubishi and some Pioneer Laserdisc players: 32 or 33
  - For a Yamaha A/V receiver, compact disc player: 36 or 37
  - For a Mitsubishi DVD player: 34

Be sure to enter both digits of the code number. If more than one number is listed, try the first one.

- 4 Release the POWER button.
- 5 Press the POWER button again. Your disc player or audio component should turn on. If it does, your remote control is now set up to operate your audio component. If it does not turn on, repeat the instructions above, trying the other code number listed for your component.

See *Using Your Remote Control to Operate Your Mitsubishi Laserdisc Player* and *Using Your Remote Control to Operate Your Mitsubishi A/V Receiver* in this chapter for information on using the remote to operate your A/V components.

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## Using the remote control to operate VCRs, cable boxes and other components (cont.)

### notes about your remote control

- ▷ **Important:** Sometimes manufacturers will change their products, or they may use more than one code. If this is the case, your remote may not be able to operate your VCR or cable box.
- ▷ **Important:** When you replace the batteries in your remote control, the remote will usually return to its initial setting. You may need to set up your remote again.

### using your remote control to operate your Mitsubishi laser-disc player

After you have set up your remote control for your laserdisc player, you can use the remote to operate it.

- ① Use the select switch on the remote control to choose the layer that you set up to operate your laserdisc player, AUDIO or DVD.
- ② Point the remote control at the laserdisc player and press the desired buttons.

You can use the POWER, CHANNEL, numbers (0-9), INFO, MENU, CANCEL, STOP, PAUSE, REW, PLAY, cursor (◀▶), and FF buttons to operate your disc player.

### using your remote control to operate your Mitsubishi A/V receiver

After you have set up your remote control for your A/V receiver, you can use the remote to operate it.

- ① Use the select switch on the remote control to choose the layer that you set up to operate your receiver: TV or AUDIO.
- ② Point the remote control at the A/V receiver and press the desired buttons.

If you are using a Mitsubishi HTS-100 receiver, you can use the POWER, VOLUME, and MUTE buttons to operate it.

If you are using a Mitsubishi HTS-300 receiver, you can use the POWER, CHANNEL, INPUT, VOLUME, ENTER, number (0-9), INFO, MENU, CANCEL, AUDIO, VIDEO, ADJUST, and MUTE buttons to operate it.

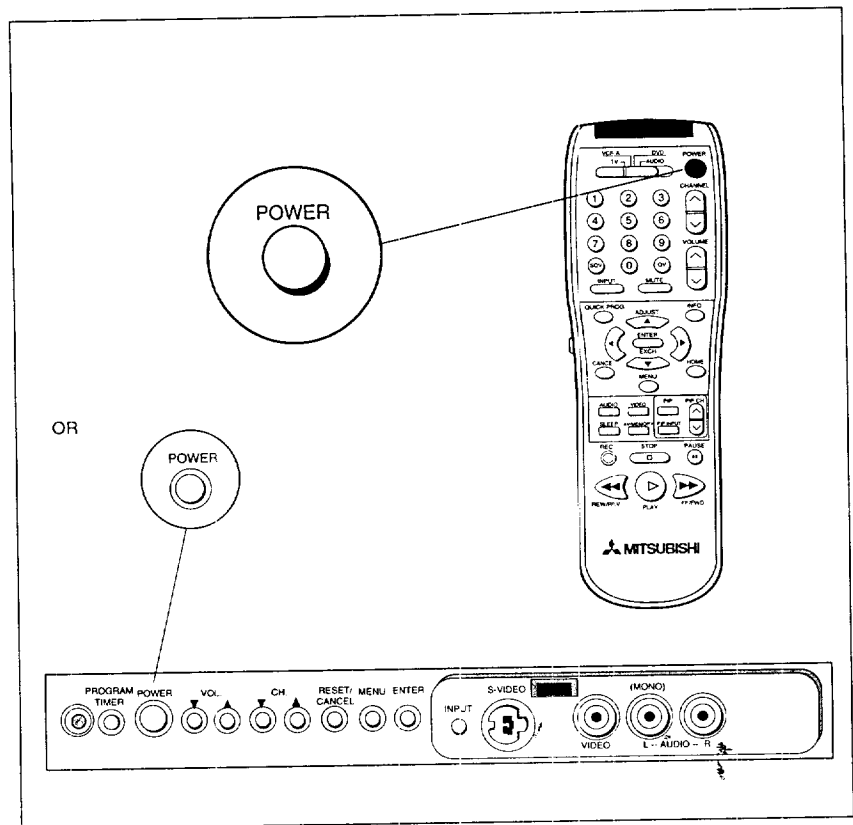
If you are using a Mitsubishi M-VR400, M-VR600, M-VR800 or MVR1000, you can use the POWER, VOLUME, number (0-9), and MUTE buttons to operate the receiver. The cursor buttons will access the M-VR800 and M-VR1000 menus.

If you are using a Mitsubishi M-CD500 CD changer, you can use the PLAY, PAUSE, STOP, FF, and REW buttons to operate the changer.

## Turning the TV on/off

▷ **Important:** Before using the remote control to operate the TV, set the select switch on the top of the remote control to TV.

Use the POWER button on either the control panel or the remote control to turn the TV on and off. The power indicator will light up in green when you turn the TV on.



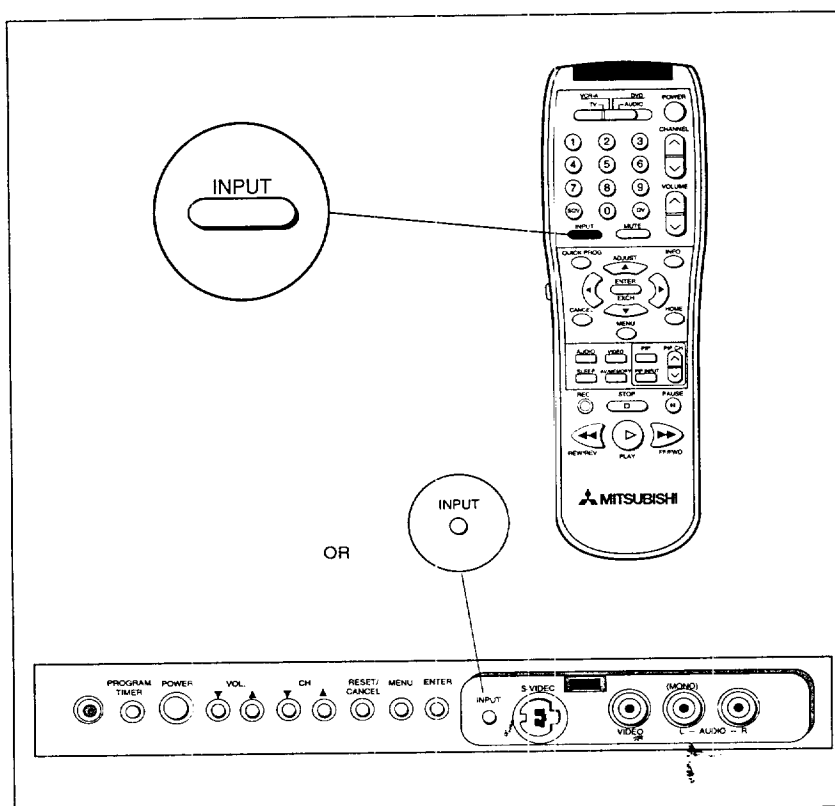
▷ **Important:** There is always a small amount of current flowing into the TV, even when the power is turned off. This maintains any changes to the TV's settings and operates the built-in clock and timing functions. Unplugging the set will erase these settings, requiring you to set them again. Unplug the TV only when it won't be used for a long time.



## Selecting the input source to watch your VCR or other equipment

If you connected components such as VCRs, camcorders, or laser-disc players to your TV, you will need to change the input source to view the signals from these components.

To select an input source, press the input button (INPUT) on the control panel or on the remote control.



You can choose between the following input sources:

- Ant-A or Ant-B (antennas or cable systems connected to the antenna terminals)
- Input 1 or Input 2 (components connected to the terminals on the back of your TV)
- Input 3 (a component connected to the terminals on the front panel of your TV)

When selected, the name of the input you have selected will display briefly in the upper right corner of the screen.

---

## Changing channels

Your TV offers you five ways of changing channels once their numbers have been programmed into channel memory:

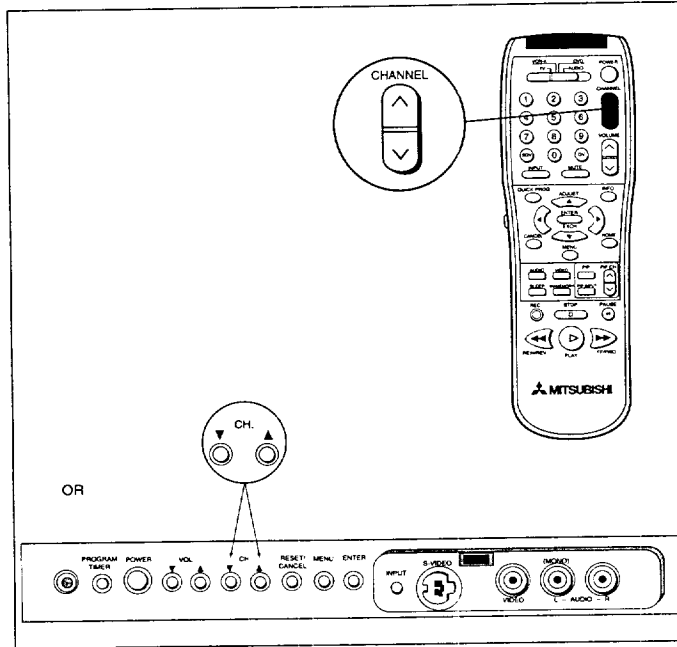
- selecting channels one-by-one with the channel up (▲) and channel down (▼) controls
- directly accessing a channel by pressing the number buttons
- using the QuickView™ option to recall the last channel
- using the special QuickView™ option to switch to a particular memorized channel
- using the SuperQuickView™ function to alternate between channels on a user-chosen list

▷ **Important:** To change channels faster, use either of the following procedures:

- Enter three digits for every channel number, using zeros where needed. For example, enter 004 to view channel 4 and 028 to view channel 28, or
- Press the ENTER button after selecting the number of the channel. For example, press 4 and ENTER to view channel 4.

▷ **Important:** If you memorized channels using the Indoor/Outdoor Antenna option, your TV can receive antenna channels 2-13 (VHF) and 14-69 (UHF). If you memorized channels using the Cable, your TV can receive cable channels 1-125. If you select a channel outside of the memorized range, your TV will not change channels.

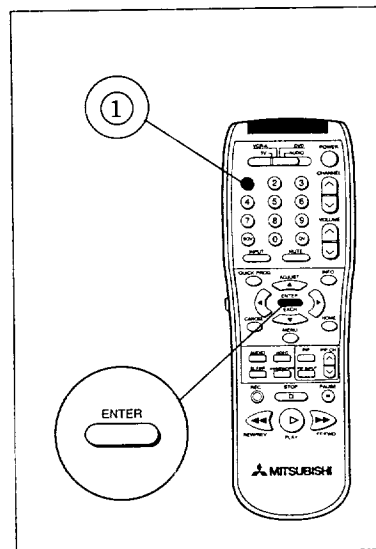
## Changing channels (cont.)



### changing channels one-by-one

To change channels:

- Press one of the channel buttons (CHANNEL) on the control panel or on the remote control. The TV will automatically tune to the next memorized channel.



### changing channels directly

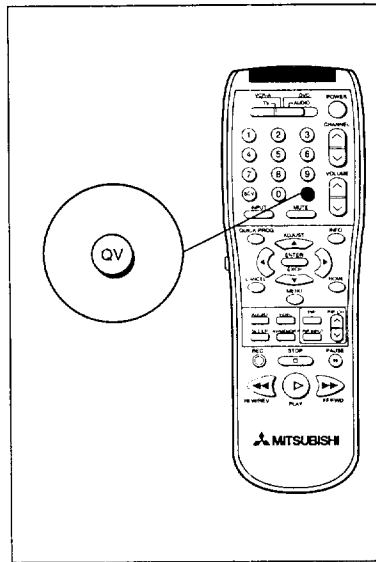
To move directly to a particular channel without going through the programmed channels in-between

- 1 Use the number buttons on the remote control to select the number of the channel you want to view.
- 2 Press the ENTER button.

---

## Changing channels (cont.)

### using the QuickView™ option



The **QuickView™** feature can work in two ways: to recall the last channel viewed (Last Channel Recall), or to recall a channel you put into QuickView™ memory.

- If you have not memorized any channels into QuickView™ Memory, **Last Channel Recall** allows you to use the QV button to switch back and forth between the current channel and the last one viewed.
- **QuickView™ Memory** allows you to use the QV button to switch back and forth between the last channel you were watching and the channel you put into QuickView™ memory.

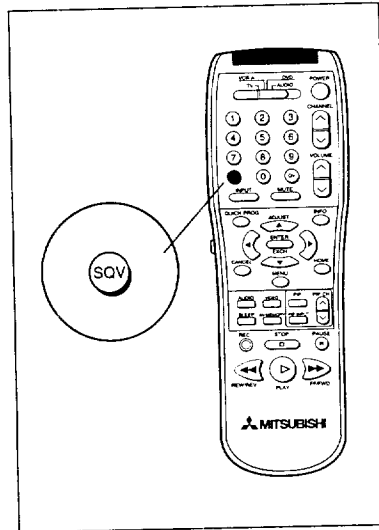
### Setting the QuickView memory

- ❶ Tune to the channel you wish to memorize.
- ❷ Press and hold the QV button for about 2 seconds. The channel numbers and a QV designator will appear on the screen, indicating that you have memorized that channel.
- ❸ After changing to another channel, press the QV button to immediately return to the memorized channel.
- ❹ If you press the QV button while watching the memorized channel, you will return to the last channel viewed.

▷ **Important:** The memorized QV channel will remain in memory until you replace it with a new channel using the procedure above. Once a channel has been programmed as a favorite QV channel, you cannot use the QV button to switch between the current and the last viewed channel *unless* you re-select the current channel as the QuickView™ channel.

---

## Changing channels (cont.)



### using the SuperQuickView™ option

To view selected channels programmed into SuperQuickView™ memory:

- 1 Enter the desired channel into SuperQuickView™ memory. For additional information, reference *Using SuperQuickView™* in this chapter.
- 2 Press the SQV button repeatedly to view the SQV channels in sequence.

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## Understanding the ViewPoint® on-screen menus

One of the distinctive features of this TV is Mitsubishi's exclusive

# ▶ ViewPoint®

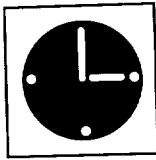
## ON-SCREEN OPERATING SYSTEM

Unlike other television menu systems, ViewPoint® includes a special Picture-in-Picture screen to let you view the TV picture while you are using the menu.

ViewPoint® also provides step-by-step instructions for using some of the TV's special capabilities.

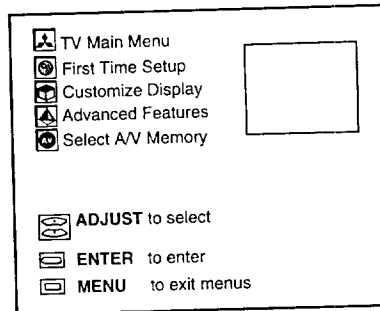
When using the ViewPoint® system, please keep the following in mind:

- The selected menu item is indicated in yellow.
- The on-screen menus will turn off if no item is selected within 5 minutes.
- Some on-screen menu items must be set before other items are available. For example, "Set the Timer" will only be available if "Set the Clock" has been set.
- You can exit the on-screen menus any time by pressing the MENU button repeatedly. You will then return to regular TV viewing.
- You can also exit the on-screen menus by pressing the HOME button on the remote control. You only need to press the HOME button once to completely exit from all menus.



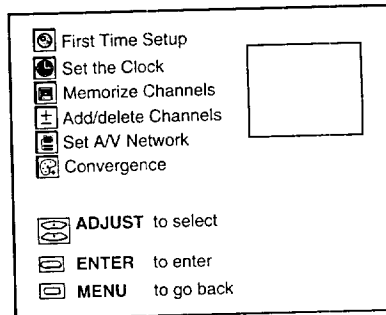
## Setting the clock

Your TV contains an internal clock. If there is a broadcaster in your area that is sending the current time along with its regular broadcast signal, then your TV can automatically set its clock with this signal. Otherwise, you can set the clock yourself.



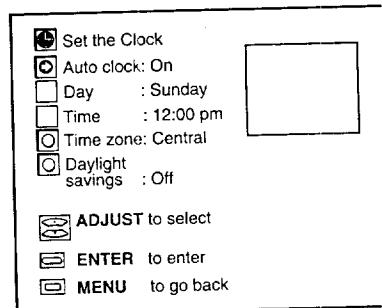
1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select "First Time Setup." Press ENTER.



3 You will see the "First Time Setup" screen. Use the ADJUST buttons to select "Set the Clock." Press ENTER.

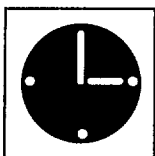
4 If you want your TV to set the clock automatically, use the ADJUST buttons to set "Auto clock" to "On". Press ENTER.



5 If you want to set the clock yourself, set "Auto clock" to "Off" and follow the steps outlined in section *Setting the Clock Yourself* in this chapter.

### using automatic clock setting

- Use the ADJUST buttons to select the time zone you live in. The available time zones are: Central, Mountain, Pacific, Alaska, Hawaii, Atlantic and Eastern.
- Press the ENTER button.



## Setting the clock (cont.)

<input checked="" type="checkbox"/>	Set the Clock	
<input checked="" type="checkbox"/>	Auto clock: On	
<input type="checkbox"/>	Day : Sunday	
<input type="checkbox"/>	Time : 12:00 pm	
<input type="checkbox"/>	Time zone: Central	
<input checked="" type="checkbox"/>	Daylight savings : Off	
	ADJUST to select	
	ENTER to enter	
	MENU to go back	

- If you follow daylight savings time, use the ADJUST buttons to answer the question with "On". Otherwise, answer "Off". Press ENTER.

- The automatic clock set up is completed. The screen will return to the "First Time Setup" menu.

▷ **Important:** The TV's clock will not be set until you tune your TV to a channel that broadcasts the time via Extended Data Services (XDS). If your TV loses power, you will need to tune to that channel again to reset your clock. Most PBS stations broadcast the time setting signal.

▷ **Important:** If you set "Daylight savings" to "On", your TV will adjust the clock by one hour when daylight savings time begins and ends. This automatic feature only works when your TV has selected a channel that sends the XDS time setting signal.

<input checked="" type="checkbox"/>	Set the Clock	
<input type="checkbox"/>	Auto clock: Off	
<input type="checkbox"/>	Day : --	
<input type="checkbox"/>	Time : --:--:--	
	ADJUST to select	
	ENTER to enter	
	MENU to go back	

### setting the clock yourself

- Use the ADJUST buttons or the key pad to set "Auto clock" to "Off". Press ENTER.

- Use the ADJUST buttons to select the "Day". Press ENTER.

- Use the ADJUST buttons or number buttons to set the "Time".

- After you have set the "Day" and "Time", press the ENTER button to start the clock. The screen will return to the "First Time Setup" menu.

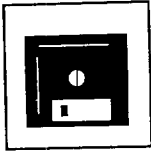
<input checked="" type="checkbox"/>	Set the Clock	
<input type="checkbox"/>	Auto clock: Off	
<input type="checkbox"/>	Day : Sunday	
<input type="checkbox"/>	Time : --:--:--	
	ADJUST to select	
	ENTER to enter	
	MENU to go back	

<input checked="" type="checkbox"/>	Set the Clock	
<input type="checkbox"/>	Auto clock: Off	
<input type="checkbox"/>	Day : Sunday	
<input type="checkbox"/>	Time : 12:00 pm	
	ADJUST to select	
	ENTER to enter	
	MENU to go back	

### ▷ Important:

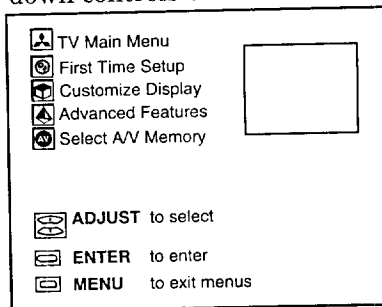
You can clear the time by pressing the CANCEL button when "Auto clock" is highlighted. If you are receiving a VCR signal on channel 3 or channel 4, the automatic setting may not work correctly.





## Memorizing channels

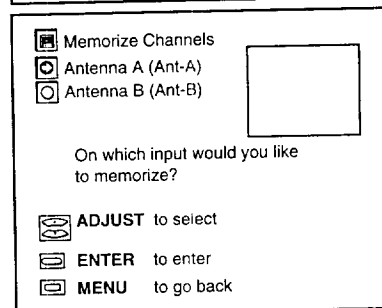
You can use the menus to automatically memorize the channels your TV can receive and skip the unused channels. Once channels are memorized, you can scan through them using the channel up/down controls on the remote control and control panel.



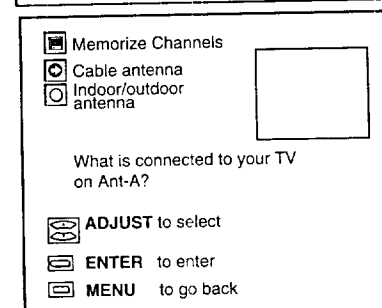
1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select "First Time Setup". Press ENTER.

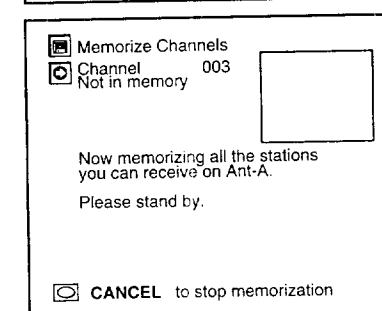
3 You will see the "First Time Setup" screen. Use the ADJUST buttons to select "Memorize Channels". Press ENTER.



4 Use the ADJUST buttons to select the terminal (Ant-A or Ant-B) to which the antenna or cable system is attached. Press ENTER. (If you made a connection to each terminal, you should memorize the channels for one of the terminals now).

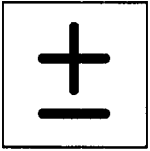


5 Use the ADJUST buttons to choose the type of antenna you connected: Cable antenna or Indoor/outdoor antenna. Press ENTER.



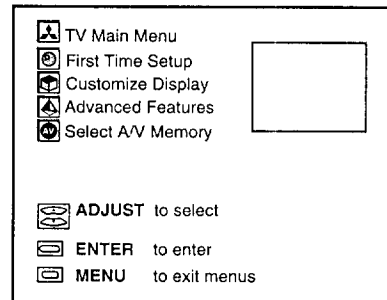
6 You will see a message that channel memorization is in progress. A channel being added to memory will be labeled "In memory". Channels not being added will be labeled "Not in memory". You can stop channel memorization at any time by pressing CANCEL.

► **Important:** CHANNEL up/down controls will work differently after channels have been memorized. After memorizing, use the channel controls (CHANNEL) to advance sequentially to the next memorized channel. Use the number buttons to select individual channels.



## Adding and deleting channels

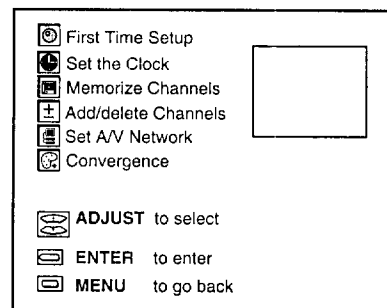
After all available channels have been memorized with the “Memorize Channels” feature, channels with weaker signals can be added or deleted with the following procedure.



1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select “First Time Setup”. Press ENTER.

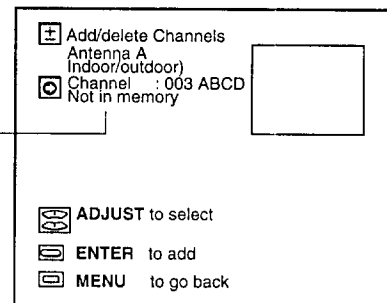
3 Use the ADJUST buttons to select “Add/delete Channels”. Press ENTER.



4 The “Add/delete Channels” screen will appear. Use the ADJUST buttons to select the channel you would like to add or delete.

(You can also use the CHANNEL controls to change channels in memory.)

Either “In memory” or “Not in memory” will appear.

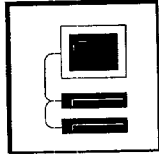


5 If a channel is labeled “In memory”, use the CANCEL button to remove it from memory. If a channel is labeled “Not in memory”, use the ENTER button to add it to memory.

6 When you are finished adding and deleting channels, press the HOME button to return to normal TV viewing.

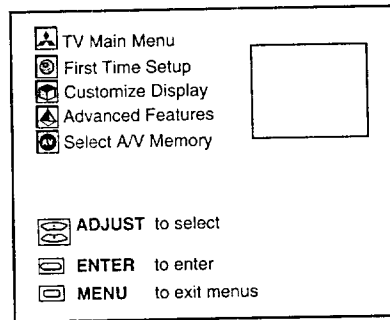
Adding a channel to memory allows you to tune to the channel with the CHANNEL up/down controls. If a channel is not in memory, you can only tune to it with the number buttons.

▷ **Important:** In this menu, you must use the CHANNEL (▲ ▼) or ADJUST (▲ ▼) buttons to change channels.



## Setting the A/V Network

The A/V Network is a system that Mitsubishi developed to make it easier to operate many products with one remote control. When the A/V Network is connected between two Mitsubishi products, you can point the remote control at one product and it will “pass” the remote control command to the other. To set up the A/V Network, follow the steps below.



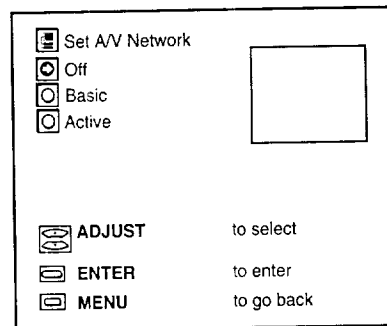
1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select “First Time Setup”. Press ENTER.

3 Use ADJUST to select “Set A/V Network”, then press ENTER.

4 Use the ADJUST buttons to select “Active”, “Basic”, or “Off”. Check the rear terminals of your VCR, then use the chart below to determine how you should set your TV.

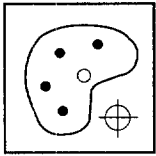
5 Press the ENTER or MENU button to return to the “First Time Setup” menu. Press HOME to exit all menus.



If your VCR has a rear terminal that reads:	...and you have set your VCR to:	...then set your TV to:
A/V Network	-	Basic
Active A/V Network	Off	Basic
Active A/V Network	Active	Active
Does not have an A/V Network rear terminal	-	Off

If you are not sure how to set your VCR’s A/V Network setting, refer to your VCR’s owner’s guide.

- ▷ **Important:** The A/V Network can still be used to pass remote control signals even when the TV’s “A/V Network” setting is “Off”.
- ▷ **Important:** If you do not use the A/V Network system, set “A/V Network” to “Off”. If you don’t, channel selection may not work correctly.
- ▷ **Important:** If you select the Active or Basic A/V setting, make sure your Mitsubishi VCR with an A/V Network or Active A/V network connection is connected to Input-1 and the A/V network cable is in place.

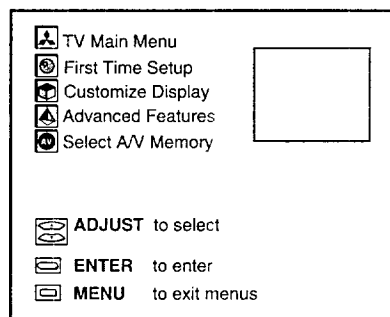


## Adjusting the convergence

Your Mitsubishi Projection TV has three picture tubes and large diameter lenses which are aligned to project light beams on the screen. Each picture tube projects only one color; red, green or blue.

This special feature allows you to finely tune the convergence at 5 positions if you think that the red and/or blue light beams are out of alignment.

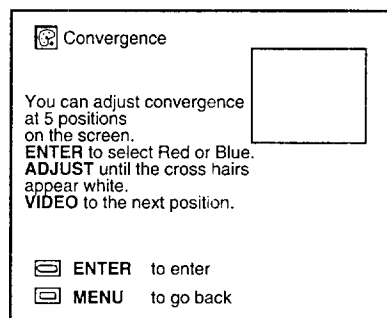
For the best picture, the beams should be aligned at each of the 5 adjustment positions which appear on the screen. You can perform the following procedure whenever you think that the light beams are out of alignment.



1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

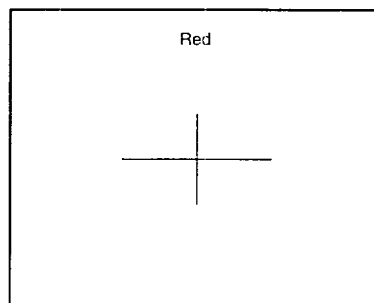
2 Use the ADJUST buttons to select "First Time Setup". Press ENTER.

3 You will see the "First Time Setup" screen. Use the ADJUST buttons to select "Convergence". Press ENTER.

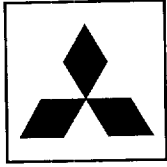


4 You will see the "Convergence" screen. Read the instructions that appear on the screen. Press the enter button to proceed.

5 Press ENTER to select a color to align and use the ADJUST buttons to align the color you selected (red or blue) with the green lines. When they are aligned, the green line will turn white.



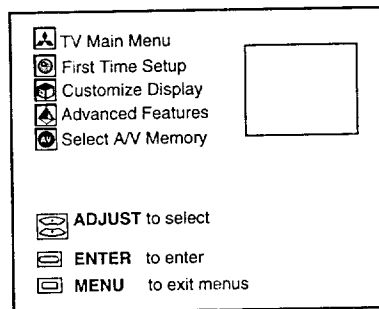
6 Next, use the VIDEO button to select the next position. Use the adjust buttons to align the color. Adjust convergence at 5 positions using VIDEO and ADJUST buttons.



## Selecting the Menu Type

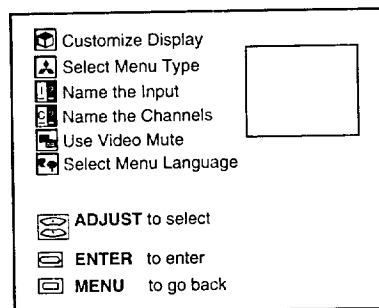
You can display the on-screen menus in one of two ways. The “Standard Menu”, which is illustrated in this manual, provides step-by-step instructions for all features. The “Advanced Menu” lets you select each feature directly by its name and icon.

Your TV’s normal setting is the “Standard menu”. To switch between the Standard and Advanced menus:



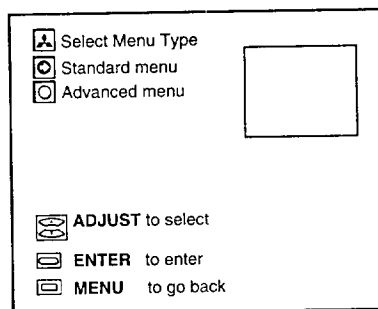
1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select “Customize Display”. Press ENTER

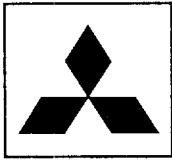


3 You will see the “Customize Display” menu. Use the ADJUST buttons to “Select Menu Type”. Press ENTER.

4 Use the ADJUST buttons to select “Standard menu” or “Advanced menu”.



5 Press the ENTER or MENU button.



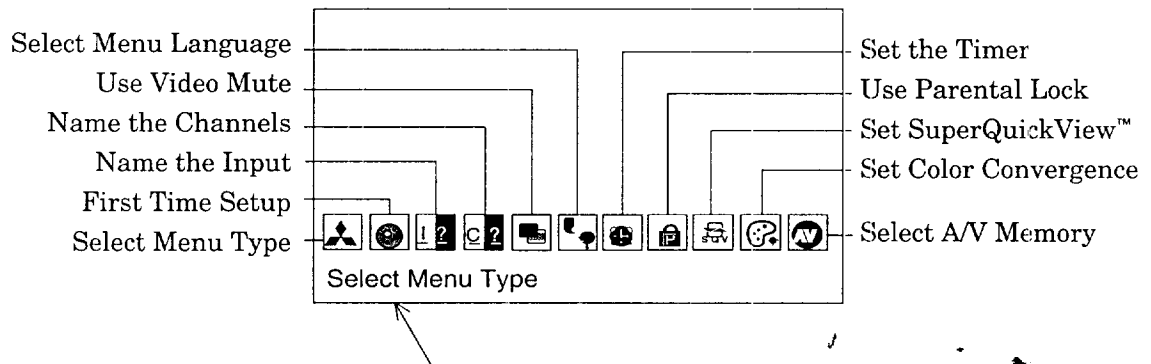
## Selecting the menu type (cont.)

If you select the “Standard menu”, the screen will return to the “Customize Display” menu. If you selected the “Advanced menu”, the screen will show the menu illustrated below.

To operate the Advanced menu, use the ADJUST buttons to highlight the icon of the feature you want to use, then press ENTER. The name of the highlighted icon appears at the bottom of the screen. This menu will disappear if you do not select an item within five minutes.

If you wish to return to the Advanced menu, use the ADJUST buttons. Choose the “Select Menu Type” icon and press ENTER. This gives you the option of re-selecting the standard menu.

### The Advanced Main Menu

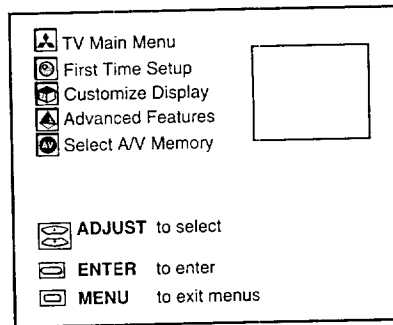


The feature name of the highlighted icon appears here.



## Naming the input

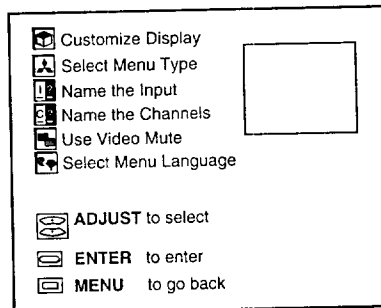
This feature allows you to name the inputs so that you can keep track of components you have connected to your TV. For example, you might name one input "VCR", and another one "DISC". After naming, the new name will appear on the screen display. The original names are: "Input-1", "Input-2" and "Input-3".



1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select "Customize Display". Press ENTER.

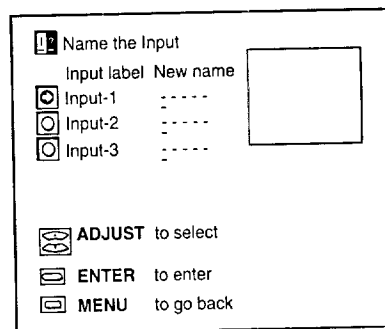
3 You will see the "Customize Display" screen. Use the ADJUST buttons to select "Name the Input". Press ENTER.



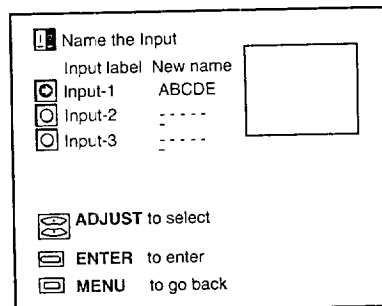
4 Use the ADJUST buttons to select the input you want to name (Input-1, Input-2 or Input 3). Press ENTER.

5 Use the ADJUST buttons and the ENTER button to select each letter in the new name.

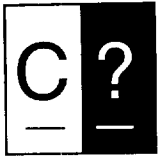
You can name the inputs using letters (A -- Z), numbers (0 -- 9), or symbols (: / . , ( ) ! " # \$ % & ' blank + ; < = > ? blank - ).



If you press the CANCEL button while setting the name, you will move one position to the left. You can clear the entire name by pressing CANCEL when the left-most position is underlined.

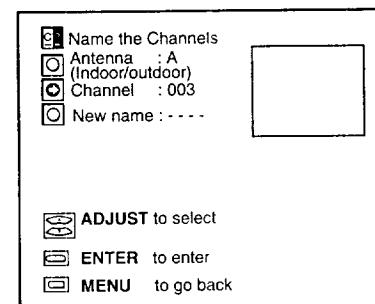
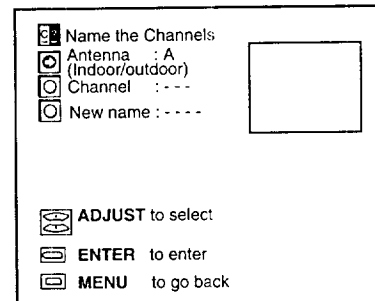
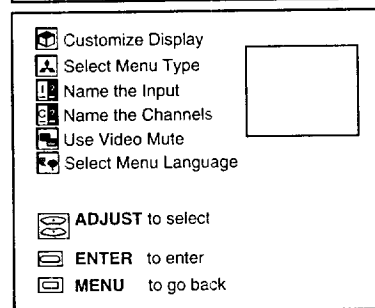
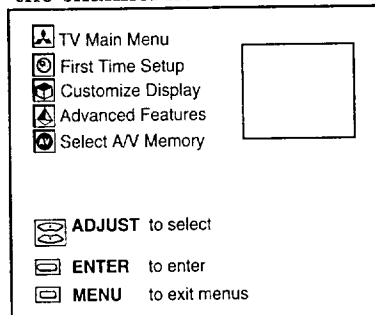


6 When you are finished, press the MENU button. The screen will return to the "Customize Display" menu.



## Naming the channels

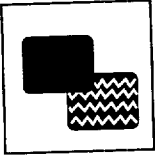
To help you keep track of the many channels available, you can name the channels your TV receives. In this menu, the ENTER button performs the same function as the ADJUST keys in other menus. After you enter a name, it will appear on-screen, next to the channel number.



- 1 Press the MENU button on the remote control. Main Menu will appear on the screen.
- 2 Use the ADJUST buttons to select “Customize Display”. Press ENTER.
- 3 You will see the “Customize Display” screen. Use ADJUST buttons to select “Name the Channels”. Press ENTER.
- 4 Use the ADJUST buttons to select an antenna (A or B). Press ENTER.
- 5 Use the ADJUST buttons, channel controls or number buttons to select the channel you want to name. Press ENTER to store the channel number in memory.
- 6 Press ENTER again to select a new name for the channel. Use the ADJUST buttons and the ENTER button to select each letter in the new name. You can use letters (A – Z), numbers (0 – 9), or symbols (: / . , ( ) ! ” # \$ % & ’ blank + ; < = > ? blank - ).  
When you are setting the name, you can clear it by pressing the CANCEL button when the left-most position is underlined.
- 7 When you are finished, press the HOME button to return to normal viewing.

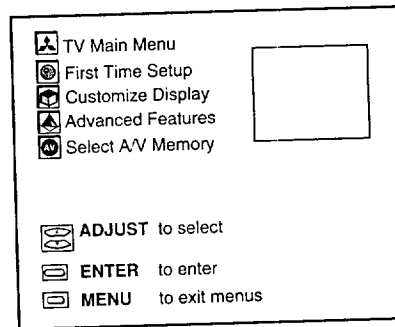
- ▷ **Important:** The name you set will appear instead of the call letters being supplied by Extended Data Services (XDS).
- ▷ **Important:** Message “Memory over!” will indicate that the memory is full. If the memory is full and you want to name a channel, you must use the above steps to clear the name for an existing channel. You can then select the new channel to name.





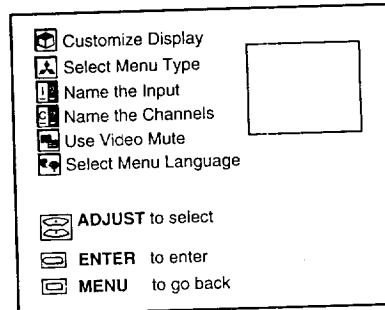
## Using video mute

When you use the video mute functions, your TV will display a blue screen whenever it is receiving a weak external input from Input-1, Input-2, or Input-3. If you want to try viewing a weak external input signal, you can turn the video mute off.

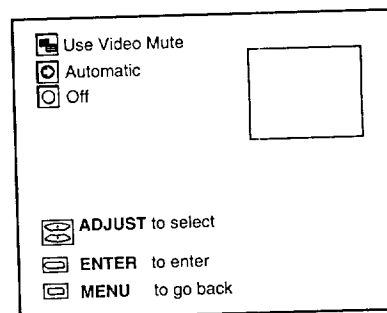


1 Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

2 Use the ADJUST buttons to select "Customize display". Press ENTER.

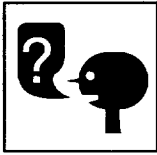


3 Use the ADJUST buttons to select "Use Video Mute". Press ENTER.



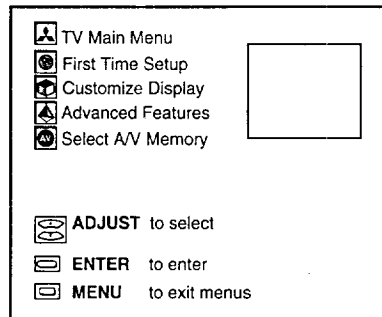
4 Using the ADJUST buttons, select "Automatic" to turn video mute on or "Off" to turn video mute off.

Press ENTER or MENU button to return to the "Customize Display" menu.

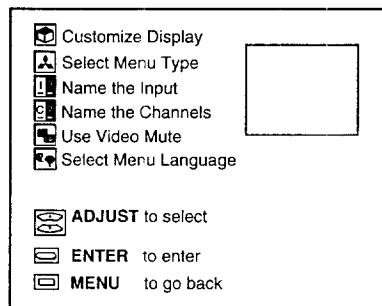


## Selecting the menu language

This TV allows you to display the on-screen menus in either of two languages: English or Spanish (Español).

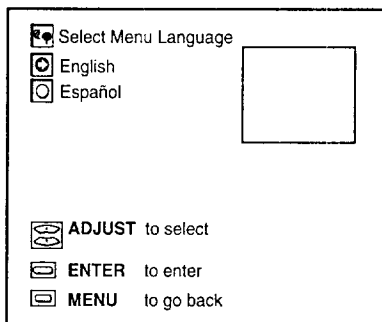


1 Press the MENU button on the remote control. The TV Main Menu will appear on the screen.



2 Use the ADJUST buttons to select “Customize Display”. Press the ENTER button.

3 Use the ADJUST buttons to select “Select Menu Language”. Press the ENTER button.



4 Use the ADJUST buttons to select the language for the on-screen menu.

5 Press the ENTER or MENU button to return to the “Customize Display” menu.

## Selecting the A/V memory position

Your TV has five A/V memory positions. Each A/V memory position contains preset picture and sound settings to best suit the type of program you are watching. You can adjust the settings for these memories as much as you like.

The five memories are:

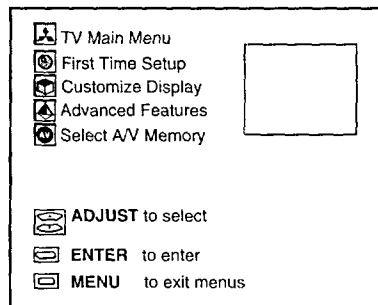
“Standard” - - - normal picture and sound

“Music” - - - vivid picture and lively sound

“Movie” - - - soft picture and strong sound

“News” - - - optimized for listening to speech in news programs

“Sports” - - - vivid picture and strong sound

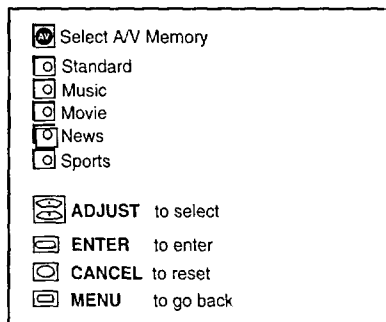


1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST buttons to select “Select A/V Memory”. Press ENTER.

3 You will see the Select A/V Memory screen.

4 Use the ADJUST buttons to select the desired A/V memory position.

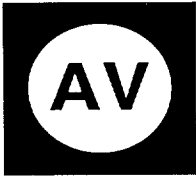


You can press the CANCEL button to reset many of the audio and video settings for the selected A/V memory position to their factory settings.

Pressing CANCEL will not affect changes made to volume, the “Listen to:” function (Stereo/ SAP/Mono), speaker (off/on), monitor out (variable/fixed), light sensor (IRIS), background (black/gray), and closed captioning.

5 Press the MENU button to return to the MAIN MENU.

► **Important:** A/V memory positions are specific to the currently selected input. When you change your input, the last A/V memory position used with that input is automatically selected. See *Selecting the Input Source* in this chapter for information on choosing your input.

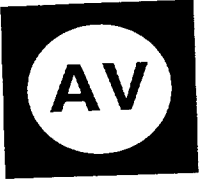


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## Selecting the A/V memory position

Although the preset A/V memory positions are designed to optimize the picture and sound quality for different types of programming, you can adjust individual settings (tint, treble, etc.) for any position. See *Customizing the A/V Memory Position* in this chapter for information on adjusting individual video and audio settings.

- ▷ **Important:** The Intelligent Room Illumination Sensor (IRIS), indicated as “IRIS” within the standard A/V Memory mode, is only found within the Video Function standard mode.
- ▷ **Important:** The “Listen to:” function, Balance, Speaker, Monitor Out, (volume), background and closed captioning adjustments are independent of A/V memory positions.
- ▷ **Important:** The “Select A/V Memory” menu is not available for locked channels until the channel has been unlocked.



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## Customizing the A/V memory position

You can adjust the individual video and audio settings for each of the five preset A/V memory positions to select your desired picture and sound qualities. This section provides descriptions of each video and audio setting, and explains how to adjust them for the A/V memory positions. (See “*Selecting the A/V memory position*”, in this chapter for more information.)

▷ **Important:** You can cancel any adjustments made to an A/V memory position and return it to the factory settings. (See “*Selecting the A/V memory position*”, in this chapter for more information.)

### Adjusting the picture

This section contains descriptions for each video setting and explains how to adjust them for the A/V memory positions.

#### descriptions of video settings

**IRIS**, the Intelligent Room Illumination (light) Sensor, allows automatic optimization of picture contrast and brightness quality. IRIS is available for use in the A/V Memory “Video Function” standard menu.

NOTE: IRIS is only available for use in the standard A/V memory video mode.

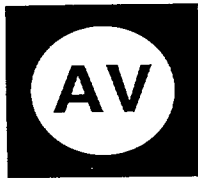
**Tint** provides a scale that adjusts the proportion of red to green in the picture. This determines the delicate tones of color.

**Color** provides a scale that determines the intensity of the color.

**Contrast** provides a scale that controls the level of white-to-black in the picture. When the contrast is low, you will be able to see the variety of shades in the darker images on the screen. When the contrast is high, the screen’s dark images will appear more uniformly black, but this will also make the colors on the screen seem more vibrant.

**Brightness** provides a scale that controls the overall brightness of the picture.

**Sharpness** provides a scale that adjusts the detail and clarity of the picture.



## Customizing the A/V memory position (cont.)

The **Color temp (Color temperature)** allows you to set how the TV will display white images. Your choices are “Low,” “High,” or “Middle”.

- With the “**Low**” setting, white images on-screen will have a warm cast to them. This setting represents the 6500°K industry standard.
- With the “**High**” setting, white images on-screen will have a cool cast to them. This setting may provide the most realistic picture under bright fluorescent lighting.
- With the “**Middle**” setting, white images on-screen will be balanced between the above warm and cool setting.

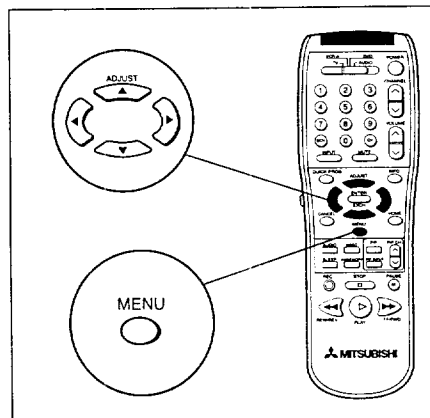
The **Background** allows you to select the background color from choices of “**Black**” or “**Gray**” for the closed caption display and the audio/video functions display.

The **CC** function is used to control the closed caption decoder. For details, see **Using the closed caption decoder** in this chapter.

### Adjusting the video settings

You can adjust the video settings for any A/V memory position using the MENU or VIDEO buttons on the remote control.

#### access with the MENU button

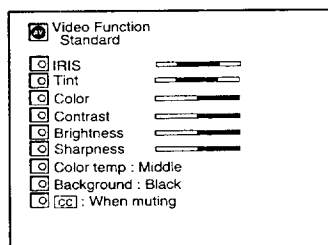


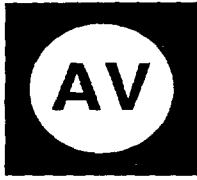
① Press the MENU button on the remote control. The TV Main Menu appears on the screen.

② Use the ADJUST buttons to select “Select A/V Memory.” Press ENTER.

③ The five A/V memory positions appear. Select the A/V position to adjust by pressing the ADJUST up/down buttons. When the desired position is selected, press ENTER.

④ The video settings for the selected A/V memory position display. Use the ADJUST up/down buttons to select the setting to change. Do **not** press ENTER.





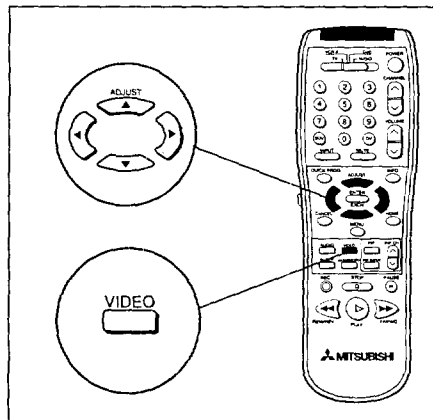
## Customizing the A/V memory position (cont.)

- 5 Press either the ADJUST right or the ADJUST left button.
- 6 The setting appears at the bottom of the screen.
- 7 While the setting is still on the screen, use the ADJUST right/left buttons to adjust it.
- 8 Brightness and contrast cannot be adjusted if "IRIS On" is selected.

▷ **Important:** Brightness and Contrast cannot be adjusted if the "IRIS ON" is selected.

### access with the video button

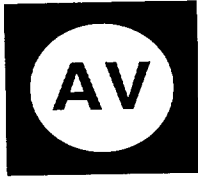
The VIDEO button changes the video settings for the *currently selected* A/V memory position. The currently selected A/V memory position displays on the screen above the video adjustment display when you press the Video button. (See *Selecting the A/V Memory Position* in this chapter.)



- 1 Press the VIDEO button until the desired setting displays at the bottom of the screen.
- 2 While the setting is still on the screen, use the ADJUST right/left buttons to adjust the function's setting.
- 3 The setting will disappear from the screen after a few seconds. You cannot adjust a setting if it is not on the screen.

▷ **Important:** If you use the VIDEO button, any adjustments made to video settings are memorized into the currently selected A/V memory position (Standard, Movie, Music, News, Sports). To reset the video settings to their factory settings, see *Selecting the A/V Memory Position* in this chapter.

▷ **Important:** Pressing ADJUST right/left buttons alone in normal picture will select video or audio setting menu.



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## Customizing the A/V memory position (cont.)

### Using closed caption decoder

Many broadcasters now supply closed captioning information along with their regular broadcasts. Your TV can decode that information and display it on the TV screen.

Closed captioning was initially designed so that those with hearing difficulties could more fully enjoy viewing television. However, closed captioning can also be used in other ways, such as:

- helping children learn to read
- learning a foreign language
- using the television without disturbing others

There are two types of captioning that broadcasters can send: **standard** and **text**.

**Standard captioning** is related to the program that is being shown. Standard captioning usually follows the dialogue of the characters on-screen and only displays when the broadcaster is sending the closed captioning.

**Text captioning** often contains information such as weather or news. Text captioning blocks out your view of the program you are watching.

Your TV can decode four different standard captioning signals and four different text captioning signals from each TV station. However, each station may be broadcasting only one or two captioning signals, or none at all.

When setting the decoder you can choose to display:

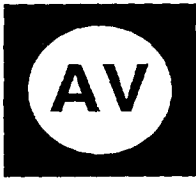
- one of four standard captioning signals (  :1,  :2,  :3,  :4)
- one of four text captioning signals (  : Text 1,  : Text 2,  : Text 3,  : Text 4)
- captions when muting (  : When Muting)

or to turn the captions off (  : Off)

If you select “  : When Muting,” the standard captioning signal (  :1) will appear whenever you use the MUTE button.

- ▷ **Important:** If you set the decoder to a “standard” caption setting and tune to a broadcaster that is not sending a caption signal, no captions will appear.
- ▷ **Important:** The content of captions are determined by the broadcaster. If your captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.

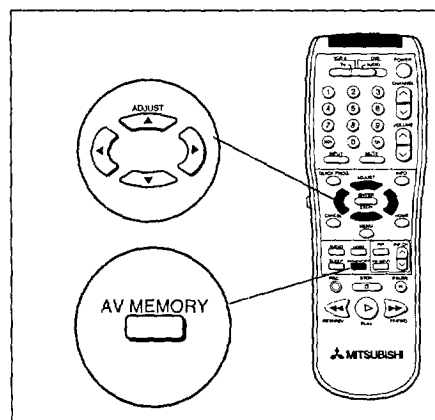
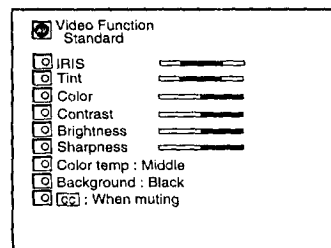
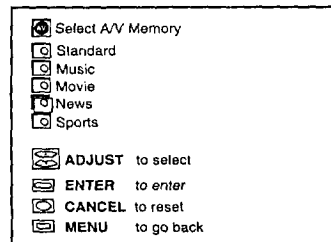
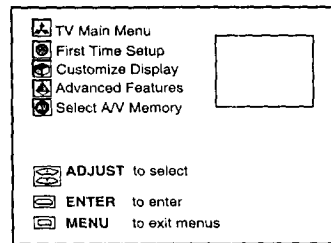




## Customizing the A/V memory position (cont.)

### adjusting the closed caption decoder

You can access the closed caption decoder screen using the MENU or AV MEMORY button. When adjusting the closed caption decoder, you can use the buttons on the remote control.



#### access with the MENU button

- 1 Press the MENU button on the remote control. The TV Main Menu will appear on the screen.
- 2 Use the ADJUST up/down buttons to choose "Select A/V Memory". Press ENTER.
- 3 Use the ADJUST up/down buttons to select the A/V Memory you want to modify. Press ENTER.
- 4 Select the closed caption display by pressing the ADJUST up/down buttons. Press the adjust right or left button to select the desired closed caption signal. Wait until the display appears. That option is now selected.

#### access with the AV Memory button

- 1 Press the AV MEMORY button. Press ENTER. Next press ADJUST up/down until the closed caption menu option displays.
- 2 Press the ADJUST right/left buttons to select the desired closed caption signal.

(See previous page for explanation of caption settings.)



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## Customizing the A/V memory position (cont.)

- ▷ **Important:** If you set the decoder to a “text” setting and tune to a broadcaster that is not sending a text signal, a large black rectangle will appear on your screen. Press the HOME button to make the rectangle disappear.
- ▷ **Important:** If you cannot display any captions on the screen, please keep in mind that not all broadcasters, video tapes, or laserdiscs supply closed caption signals.
- Additionally, captions might not appear if you are:
- playing a video tape that is worn or deteriorated, or
  - starting to play a laserdisc or video tape from still or search mode.
- ▷ **Important:** Regardless of which one of the five A/V memory closed caption settings chosen, the selection will apply to all five settings.

### Adjusting the sound

This section contains descriptions for each audio setting and explains how to adjust them for the A/V memory positions.

#### descriptions of audio settings

The **Listen to:** function allows you to determine how your TV will receive an audio signal and play back the sound that you hear. You can set this function to “Stereo,” “S.A.P.” or “Mono.”

- For almost all situations, you should choose **Stereo**. With this setting, the TV will play stereo broadcasts in stereo and mono broadcasts in mono. If a channel is broadcasting in stereo, the word “Stereo” will display when you tune to that channel.
- Some TV stations will broadcast second audio program, or **S.A.P.** signal. This signal is an additional soundtrack that you can’t hear during normal TV viewing. An S.A.P. signal might be related to the program you are watching, such as a soundtrack in a foreign language, or it might be unrelated; for example, a weather report. If a channel is broadcasting an S.A.P. signal, the letters “SAP” will appear on-screen when you tune to that channel. Choose “Listen to: SAP” to hear the S.A.P. signal.
- Use the **Mono** setting if you are receiving a weak audio signal. This setting will reduce background noise. However the TV will only play in mono, even if the program you are watching is in stereo.

The **Bass** setting enhances or reduces low frequency sound.

The **Treble** setting enhances or reduces high frequency sound.

The **Balance** setting adjusts the level of sound between the left and right speakers. Adjust the scale until the sound seems to come equally from both speakers.



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## Customizing the A/V memory position (cont.)

The **Surround** setting creates simulated stereo and surround effects. You can set this setting to “Off,” “Simulate” or “Hall”.

- Select **Off** if you do not want to use any surround effects.
- Select **Simulate** if you are watching a non-stereo program. Your TV will create a simulated stereo effect.
- Select **Hall** if you are watching a stereo program. Your TV will create a simulated surround effect, making the sound seem to extend around and behind you using the TV’s internal speakers.

The **Speaker** function allows you to turn the TV’s internal speakers on or off.

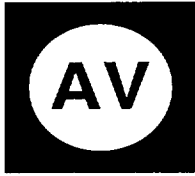
- Choose **On** if you want to play the TV’s sound through the TV’s built-in speakers.
- Choose **Off** if you connected your audio system to your TV and you want to play the sound of your TV through the audio system.

The **Monitor Out** function determines how the TV will send an audio signal to an audio system or home theatre receiver. Your choices are “Variable” or “Fixed”.

- If you choose **Fixed**, the TV will send out an audio signal at a fixed volume level. The level will not change when you adjust the TV’s volume. Use the controls on your audio system to adjust the volume. The fixed setting is most useful when you can control the audio system’s volume with a remote control.
- If you choose **Variable**, the TV’s audio output will change when you adjust the TV’s volume. If you use this setting with an audio system, turn the TV’s volume all the way down, set the audio system’s volume to an average setting and then adjust the TV’s volume until you can hear the signal.

The **Level Sound** selection allows you to enable the TV to automatically equalize the volume level of programs that contain significant sound level differences from one segment to another; for example, from regular programming to commercials. To receive the best audio fidelity for music programs, it may be desirable to turn this setting off.

- ▷ **Important:** For proper tone and volume balance, you may wish to turn off the TV’s speakers when using an external audio system.
- ▷ **Important:** Set the surround setting to “OFF” when using an A/V receiver with Dolby Pro Logic Surround.

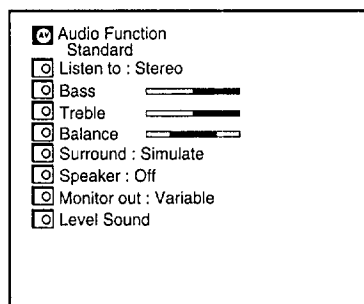
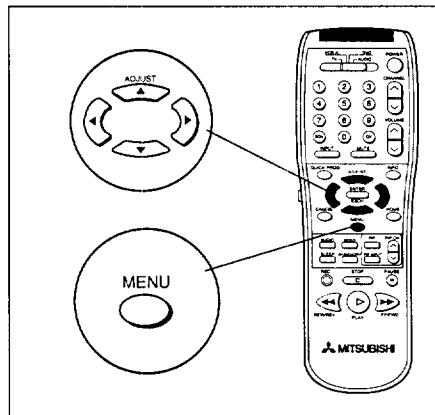
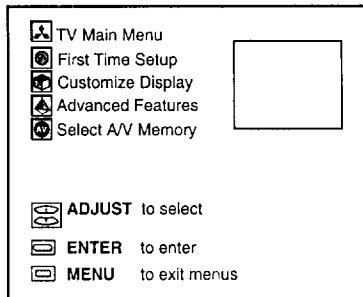


## Customizing the A/V memory position (cont.)

### Adjusting the audio functions

You can adjust the audio settings for any A/V memory position using the MENU or AUDIO buttons on the remote control.

#### access with the MENU button



1 Press the MENU button on the remote control. The TV Main Menu will appear on the screen.

2 Use the ADJUST buttons to choose "Select A/V Memory". Press ENTER. The five A/V memory positions will appear. Select the A/V position by pressing the ADJUST up/down buttons. Press ENTER twice to display the settings for the selected audio mode.

3 The audio settings for the selected A/V memory position are displayed. Use the ADJUST up/down buttons to select the setting to change. Do **NOT** press ENTER.

4 Press either of the ADJUST right/left buttons.

5 The setting appears at the bottom of the screen.

6 While the function is still on the screen, use the ADJUST right/left buttons to modify the function's setting.

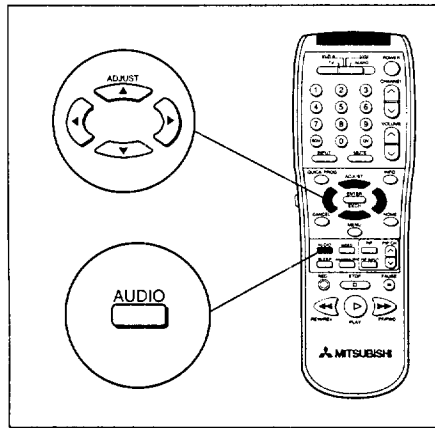
7 The functions will disappear from the screen after a few seconds. You *cannot* adjust a function if it is not on the screen.



## Customizing the A/V memory position (cont.)

### access with the AUDIO button

The AUDIO button changes the audio settings for *the currently selected* A/V memory position. The currently selected A/V memory position will display on the screen above the audio adjustment display when the Audio button is pressed. (See *Selecting the A/V Memory Position* in this chapter.)



- 1 Press the AUDIO button until the desired function displays on the bottom of the screen.
- 2 While the function is still on the screen, use the ADJUST right/left buttons to modify the function's setting.
- 3 The functions will disappear from the screen after a few seconds. You *cannot* adjust a function if it is not on the screen.

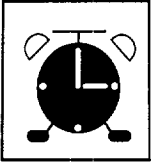
- ▷ **Important:** If you use the AUDIO button, any adjustments made to audio functions are memorized into the currently selected A/V memory position (Standard, Movie, Music, News, Sports). To reset the audio functions to their factory settings, see *Selecting the A/V Memory* in this chapter.
- ▷ **Important:** Pressing the ADJUST right/left button alone in normal picture will select the previous selected video or audio function menu.

## ◆ **Using the Advanced Features**

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This section explains how to use some of the more advanced features. You'll learn about:

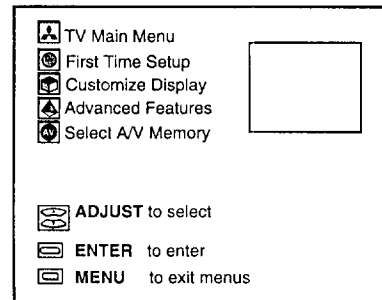
- **Setting the timer**
- **Using the parental lock**
- **Using SuperQuickView™**



## Setting the timer

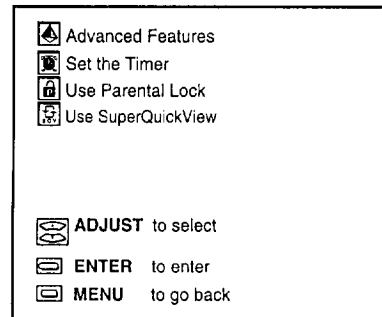
This special feature allows you to program the TV to turn on automatically at a specific time to the channel that you set.

NOTE: The clock must be set prior to setting the timer.



To set the timer:

- 1 Press the MENU button on the remote control. The Main Menu will appear on the screen.
- 2 Use the ADJUST buttons to select "Advanced Features". Press ENTER.

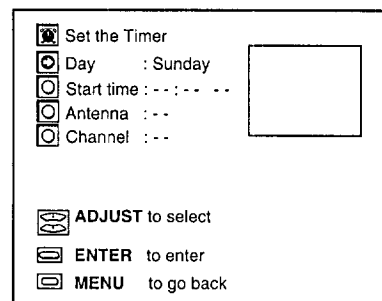


- 3 You will see the "Advanced Features" screen. Use the ADJUST buttons to select "Set the Timer". Press ENTER.

- 4 You will see the "Set the Timer" screen. Press ENTER.

▷ **Important:**

If you have not set the time, you will be automatically routed to the "Set the clock" menu.



- 5 Use the ADJUST buttons and the ENTER button to set Day (Mon-to-Fri, Everyday, Sun ~ Sat), Start time, Antenna, and Channel.

After setting the timer, the Program Timer indicator will blink in green when the TV is turned off.

If you press the CANCEL button while setting the timer, the arrow will move to the previous item. To clear the timer, press CANCEL with the arrow next to "Day".

- ▷ **Important:** When the timer turns the TV on, the display will flash. If you do not press any remote control buttons within 5 minutes after the TV turns on, the TV will automatically turn off. Press a function button (such as the display button) to keep the TV on and to turn off the flashing display.

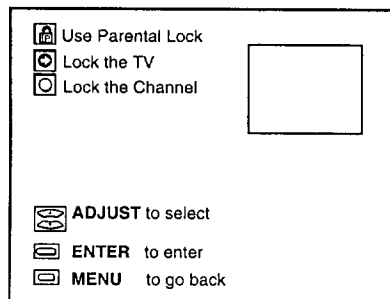
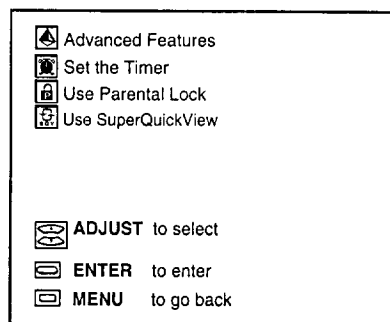
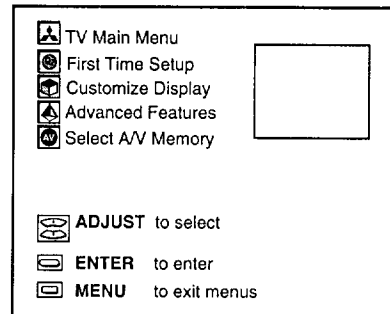


## Using the parental lock

This special feature allows you to lock the entire TV during a certain time period or lock up to ten individual channels. You *cannot* lock the TV and lock individual channels at the same time. When you turn on the lock, you enter a 4-digit secret code that will allow you to turn off the lock later.

If you try to turn on a locked TV, view a locked channel or the locking “time period” begins, you will see a message asking you to enter the secret code. If you don’t enter the code within five minutes, the TV will turn off or tune to an unlocked channel.

If you enter your secret code, the message will disappear and the lock will be turned off temporarily. However, the TV or channels will be locked again after you turn off the TV. This will continue until you turn the lock off permanently. To turn the lock off permanently, follow the procedure *Canceling or Changing Parental Lock* in this section.



### using parental lock

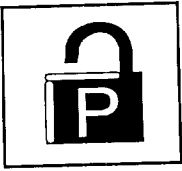
- 1 Press the MENU button. The Main Menu will appear.
- 2 Use the ADJUST buttons to select “Advanced Features”. Press ENTER.
- 3 You will see the “Advanced Features” screen. Use the ADJUST buttons to select “Use Parental Lock”. Press ENTER.
- 4 You will see the “Use Parental Lock” screen. Use the ADJUST buttons to select “Lock the TV” or “Lock the Channel”. Press ENTER.

If you selected “Lock the TV”, see *Locking the TV* in this chapter. If you selected “Lock the Channel”, see *Locking the Channel* in this chapter.

#### ▷ Important:

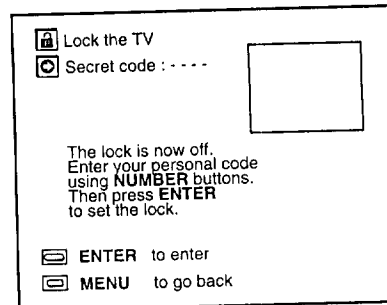
If you turn the parental TV lock on, you cannot use the timer.





## Using the parental lock (cont.)

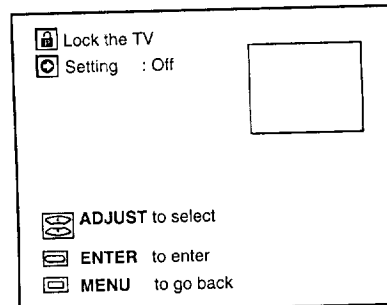
### locking the TV



1 The message for locking the TV will appear.

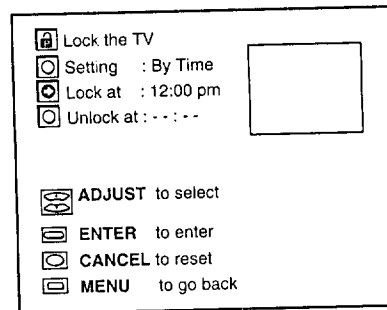
2 Enter a four-digit secret code using the number buttons (0-9); then, press the ENTER button.

You can cancel the code if you press CANCEL before you press ENTER.



3 Use the ADJUST up/down buttons to select a setting: Off, Always On, or By Time. Press ENTER.

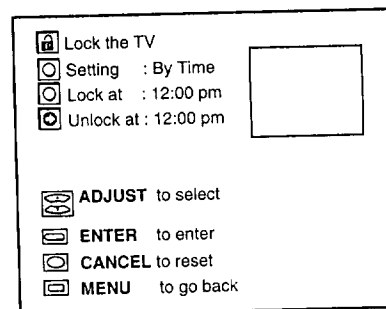
### If you select the setting “: By Time”



1 The cursor will move to “Lock at.” Use the ADJUST buttons to set the time at which you want to lock the TV. Press ENTER.

2 Use the ADJUST buttons to set the time at which you want to unlock the TV. Press ENTER. The screen will return to the “Advanced Features” menu.

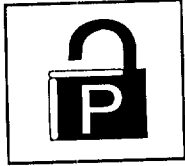
If you want the lock to be in effect all the time, set the same “Lock at” time as you set for the “Unlock at” time, or select “Always On”.



3 Press HOME to exit the menus.

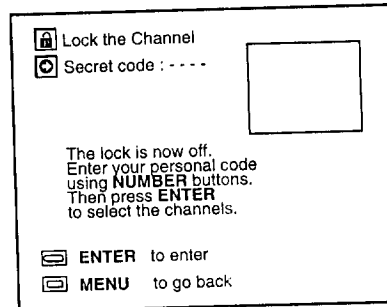
4 When you turn on a locked TV or if the lock’s “time period” begins, you will be asked to enter your four-digit secret code. Enter the code to temporarily disable the lock. The lock will be enabled again when you turn the TV off.

▷ **Important:** The TV will be locked at all times *if* you set the lock by time but do not set the TV’s clock.



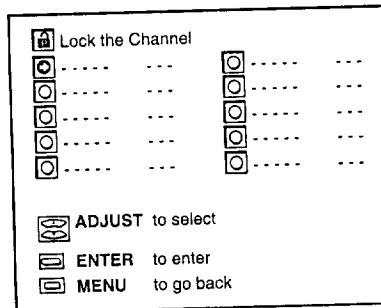
## Using the parental lock (cont.)

### locking the channel

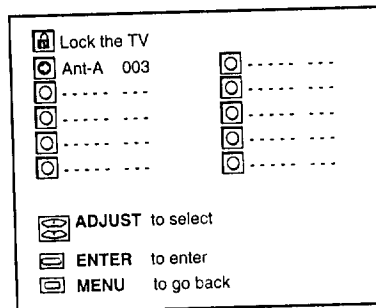


- 1 The message "Lock the Channel" will appear.
- 2 Enter a four-digit secret code using the number buttons (0-9); press ENTER.

You can cancel the code if you press CANCEL before you press ENTER.



- 3 You will see the channel lock set up screen. Use the four ADJUST buttons to select a position. Press ENTER.
- 4 Use the ADJUST buttons to select the antenna (Ant-A or Ant-B) that has the channel you want to lock. Press ENTER.



- 5 Use the CHANNEL buttons to select the channel you want to lock. Press ENTER.
- 6 Repeat the steps above to lock additional channels. When you are finished, press the HOME button to turn off the menus.
- 7 When you try to view a locked channel, you will be asked to enter your four-digit secret code. Enter the code to temporarily disable the lock. The lock will be enabled again when you turn the TV off.



## Using the parental lock (cont.)

### canceling or changing parental lock

- 1 Press the MENU button. The Main Menu will appear on the screen.
- 2 Select "Advanced Features" using the ADJUST up/down buttons. Press ENTER.
- 3 Select "Use Parental Lock" using the ADJUST button. Press ENTER.
- 4 Enter the four digits of your secret code using the number buttons (0-9). Press ENTER.

You will see this screen if the TV is locked.

Lock the TV  
Setting :Always On  
-----  
-----  
-----  
-----

ADJUST to select  
ENTER to enter  
MENU to go back

- 5 If you have locked the TV, use the ADJUST up/down buttons to select the setting "Off" to turn off the lock.

If you have locked the channel, use the ADJUST buttons to place the cursor next to the channel whose lock you want to cancel. Press ENTER.

You will see this screen if you lock a channel, e.g., channel 3 (shown).

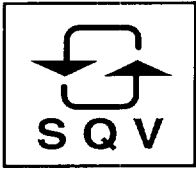
Lock the Channel  
Ant-A 003  
-----  
-----  
-----  
-----

ADJUST to select  
ENTER to enter  
MENU to go back

- 6 Press the CANCEL button to unlock that channel, or use the ADJUST buttons to change the channel to a new one.

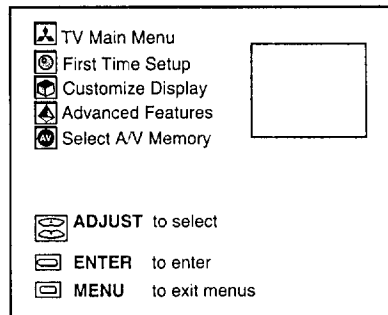
- 7 Press the MENU button to return to the "Advanced Features" menu.

▷ **Important:** If you forget your four-digit secret code, please see the Appendix *Procedure for Bypassing the Parental Lock*.



## Using SuperQuickView™

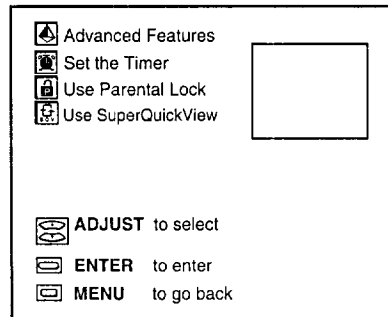
SuperQuickView™ allows you to cycle through a list of up to ten channels with the SQV button. Use the menus to add channels to the list or to remove channels from the list. You can also add channels directly to the list using only the remote control's SQV button.



### customizing the SuperQuickView™ list with the menus

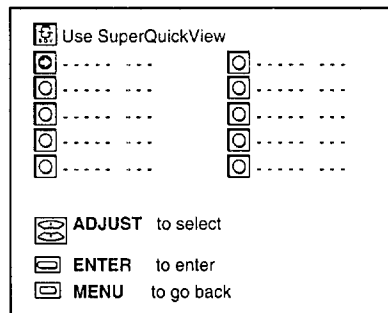
1 Press the MENU button on the remote control. The Main Menu will appear on the screen.

2 Use the ADJUST up/down buttons to select "Advanced Features". Press ENTER.



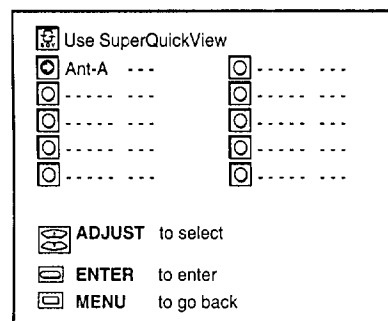
3 You will see the "Advanced Features" screen. Use the ADJUST up/down buttons to select "Use SuperQuickView". Press ENTER.

4 You will see the "SuperQuickView" screen. Use the ADJUST buttons to select a position in the list. Press ENTER.



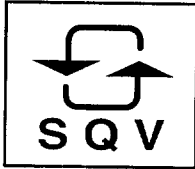
5 Use the ADJUST up/down buttons to select the antenna (Ant-A or Ant-B). Press ENTER. You can clear the entry by pressing CANCEL.

6 Use the CHANNEL buttons or number buttons to select the channel to add to the list. Press ENTER.



7 Repeat steps 4 through 6 to customize the SuperQuickView™ memory.

8 Press the MENU button to exit this menu.



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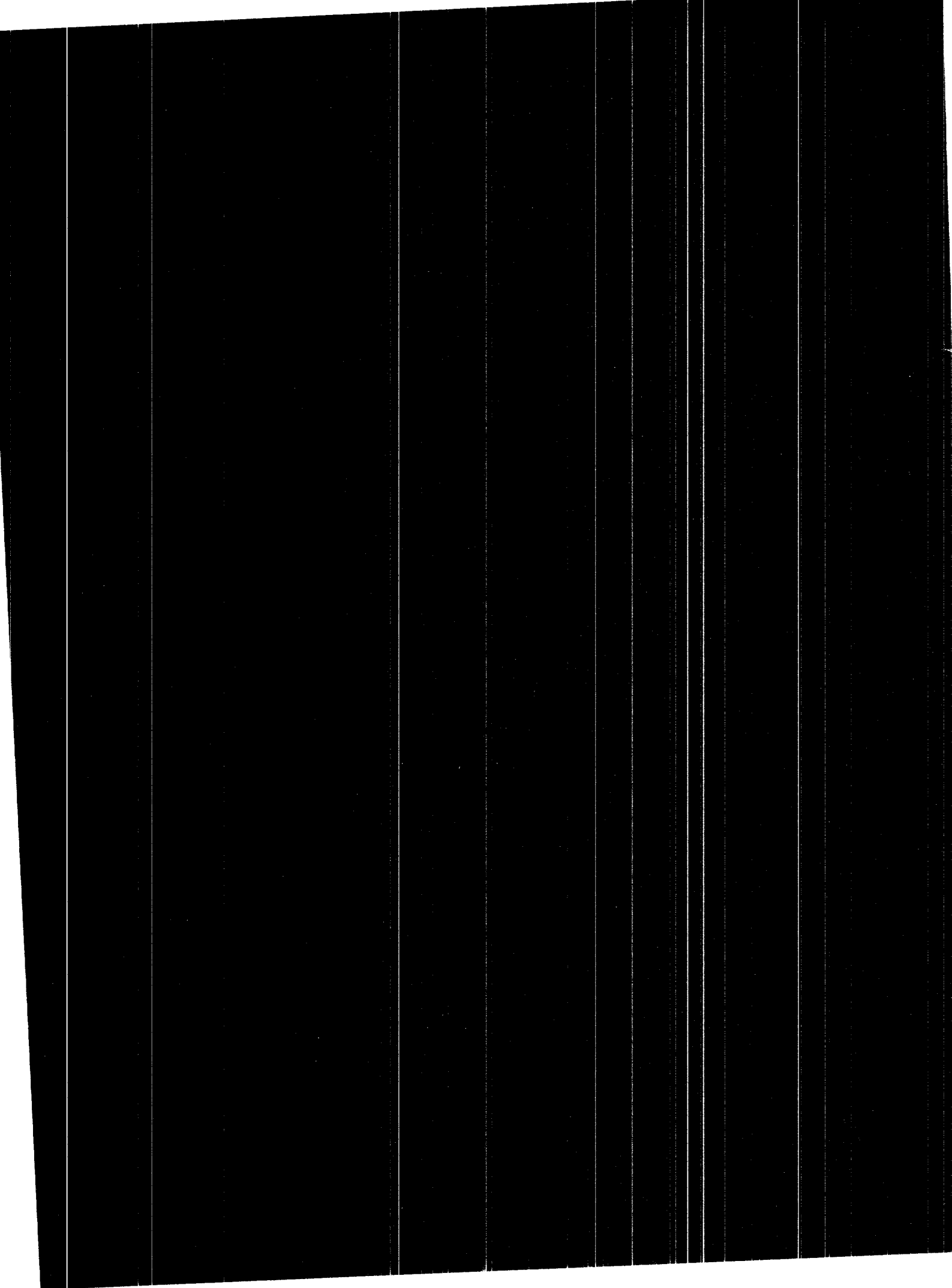
## Using SuperQuickView™ (cont.)

### adding channels directly to the list with the remote control's SQV button

- ❶ Use the channel controls or number buttons to tune the TV to the channel you want to add to the list.
  - ❷ Press and hold the SQV button for about 2 seconds. The letters "SQV" will appear under the channel number, indicating that the channel has been added to SuperQuickView™ memory.
- ▷ **Important:** Once you've added a channel to the SQV memory, the letters "SQV" appear under the channel number any time the channel number is displayed, even if you tune to the channel in another manner.
- ▷ **Important:** If the SuperQuickView™ memory is full, the letters "SQV" will flash when you hold the SQV button for about 2 seconds. Use the steps below and on the preceding page to replace a current SuperQuickView™ channel with a new channel or to remove existing SuperQuickView™ selections.

### removing channels from the list with the remote control's CANCEL button

- ❶ Use steps ❶ - ❹ from "customizing the SuperQuickView™ list with the menus" on the preceding page to select the channel position from the SuperQuickView™ list.
- ❷ Press the CANCEL button on the remote control to clear the entry. You can now add a SuperQuickView™ channel to the blank entry.





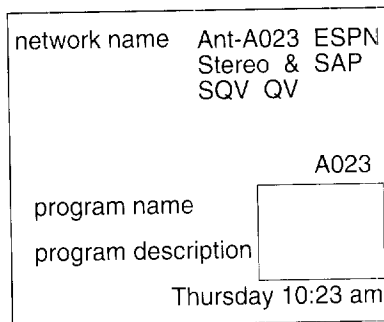
In addition to the basic and advanced features explained in the previous chapter, your TV offers some special features that you can use when operating your TV. This chapter contains the following topics:

- ◆ **Understanding the On-Screen Displays**
- ◆ **Using the Sleep Timer**
- ◆ **Using the Picture-in-Picture (PIP) Modes**
- ◆ **Using the Active A/V Network Feature**

## ◆ Understanding the On-Screen Displays

Your TV provides an on-screen summary of the current settings for the TV or cable channels, as well as the information related to Extended Data Services (XDS). XDS allows broadcasters to supply you with the current time, channel information (such as call letters and the network name), and program information (such as the program name and program description). To view this information, press the information button (INFO) on the remote control.

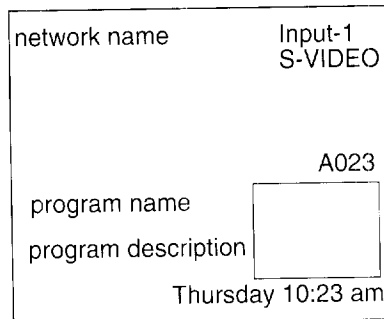
You will see a display like this if your main source is an antenna:



This setting shows:

- antenna (A) and channel number (23)
- the channel's call letters or name
- stereo and SAP are available
- channel programmed into SuperQuickView™ memory
- channel is the QuickView (QV) channel
- PIP input source
- current day of the week
- time

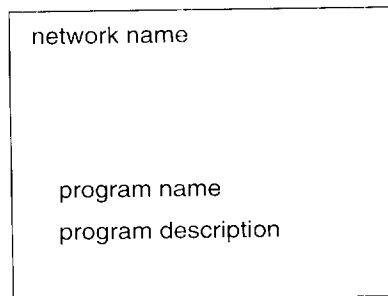
You will see a display like this if your main source is an input:



This setting shows:

- the input name (Input-1)
- S-video cable is connected
- PIP input source
- current day of the week
- time.

You will see a display like this if you are using XDS:



This setting shows where the network name, program name and program description will appear if the broadcaster is supplying the information via XDS. This program information will only be present if the broadcaster is supplying the information.

The on-screen displays will automatically disappear after about 10 seconds.

**Important:** XDS program information will only be present if the broadcaster is supplying the information.



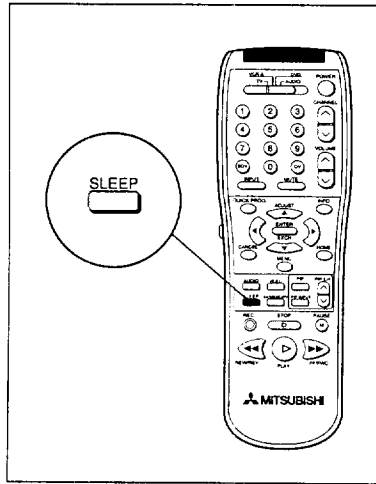
## ◆ **Using the Sleep Timer**

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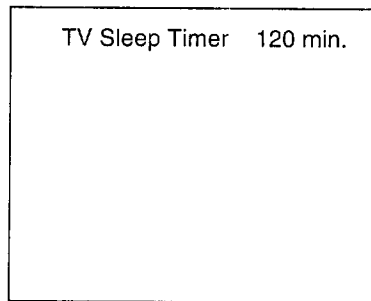
This special feature allows you to set the TV to turn off automatically. You can set the TV to turn off after a period of time ranging from 10 to 120 minutes, in ten minute intervals. In this section you will learn:

- **Setting the sleep timer**
- **Changing or canceling the sleep timer**

## Setting the sleep timer

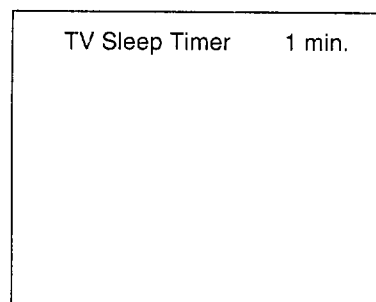


- 1 Press the SLEEP button on the remote control. The sleep timer display will appear on the screen.
- 2 Select how long you want the TV to stay on by repeatedly pressing the SLEEP button. The time will decrease in 10 minute intervals each time you press the button.



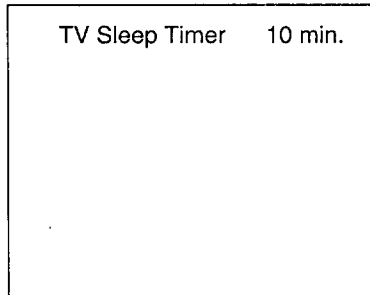
- 3 When you reach the time you want, stop pressing the button. The sleep timer display will disappear after a few seconds.
- 4 To view the amount of time left in the sleep timer press the SLEEP button once. The on-screen display shows the amount of time remaining.

▷ **Important:** During the last minute before the TV turns off, "Sleep Timer 1 min." will flash in red to remind you that the sleep timer is set.



---

## Changing or canceling the sleep timer



- 1 Press the SLEEP button on the remote control. An on-screen display will indicate the amount of time remaining until the TV turns off.
- 2 Repeatedly press the SLEEP button to change the remaining time or to cancel the sleep timer. The sleep timer is canceled when "—" appears instead of the remaining time.

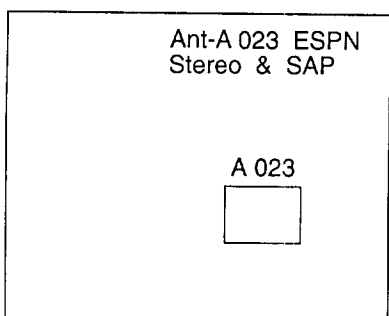
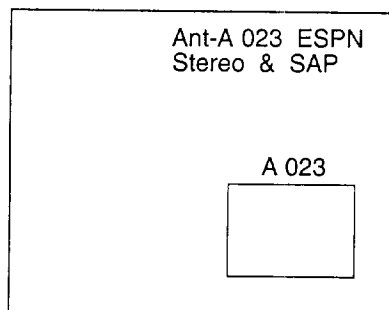
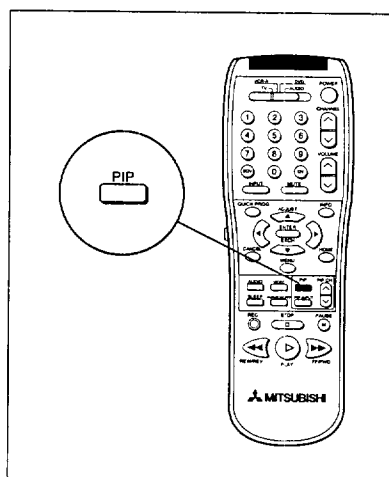
## ◆ Using the Picture-in-Picture (PIP) Modes

---

One of the special features of the TV is the picture-in-picture (PIP) mode, which allows you to view two different sources at the same time. In this section you'll learn:

- **Activating the PIP image**
- **Selecting the source of the PIP image**
- **Changing channels while using the PIP modes**
- **Exchanging the picture of the PIP image and the main image**
- **Moving the PIP image**
- **Freezing the PIP image**

## Activating the PIP image



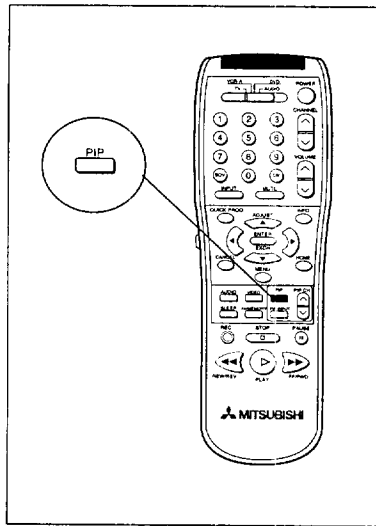
- ❶ Select the number of the TV channel you want to view with the channel control.
- ❷ Press the PIP button.
- ❸ A PIP image will appear in the corner of the screen. Use the PIP CH up (▲) down (▼) control to select the channel to be viewed.
- ❹ Press PIP again within 10 seconds; the PIP image will reduce to a smaller size.  
  
(If you wait longer than 10 seconds the PIP image will disappear when you press the PIP button.)
- ❺ Press the PIP button once again to cancel the PIP image.

▷ **Important:** When the main image is black and white, the PIP image will also appear in black and white.

▷ **Important:** If you move the PIP image and then turn it off, it will remain in its new position when you turn it on again.

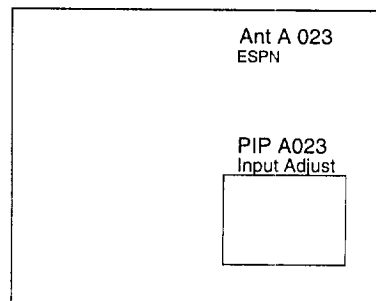
## Selecting the source of the PIP image

The Mitsubishi TV you have purchased has two-tuner PIP. If you have only an Ant-A input connected, you can view one program on the main picture and another channel from the same ANT input on the PIP display without the use of a second external tuner, such as a VCR.



❶ Turn the PIP image on by pressing the PIP button.

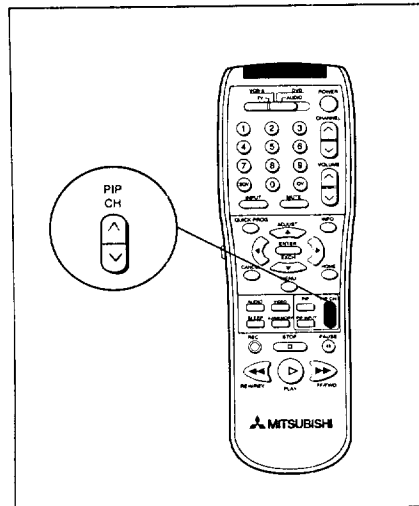
❷ To select the PIP input, press the PIP INPUT button. Each time you press the button, the PIP input will select the next input from the inputs available: ANT-A, INPUT 1, INPUT 2 or INPUT 3. Each time you select a different input, an on-screen display will appear for about five seconds. The screen will display the name of the input selected.



❸ You can also select the PIP input source by first selecting the source in the main picture and then pressing the EXCH button. Pressing this button with the PIP displayed exchanges the PIP picture for the main picture.

▷ **Important:** ANT-B cannot be selected with the PIP Input button. If you have a picture displayed from ANT-B on the main picture (with the PIP also displayed), the EXCH button will *not* exchange the main picture for the PIP picture.

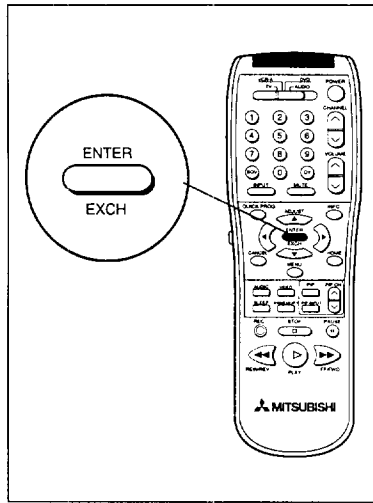
## Changing channels while using the PIP modes



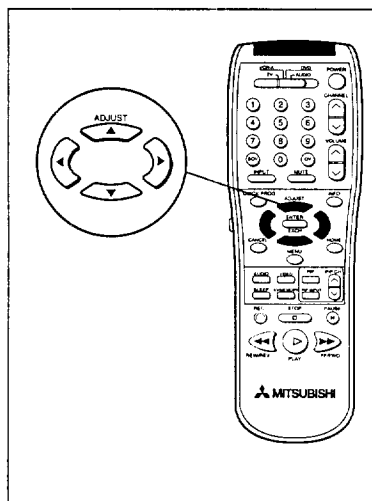
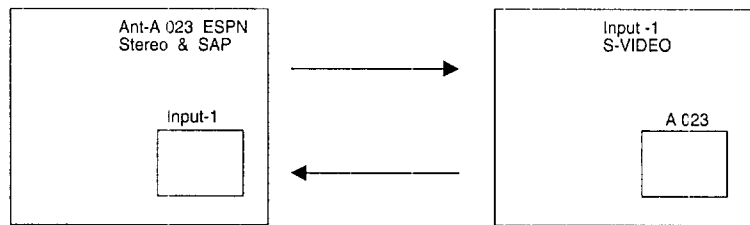
- 1 Press the PIP channel button (PIP CH) up ▲ or down ▼ on the remote control to change the channel of the PIP image.
- 2 Press the CHANNEL up ▲ or down ▼ button on the remote control to change the channel of the main image.

▷ **Important:** The PIP CH Buttons change the channel for the small PIP image **only** when that image is a channel from ANT-A. When the PIP image comes from another piece of equipment (e.g., your satellite receiver or VCR) the PIP CH buttons do not change the picture.

## Exchanging the picture of the PIP image and the main image

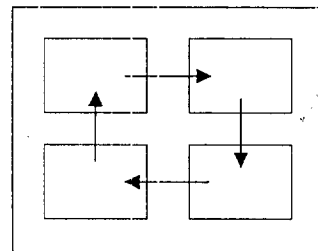


As long as Antenna-B is not the main picture, you may exchange the picture of the main (background) image and the PIP image by pressing the ENTER/EXCHANGE button.



### Moving the PIP image

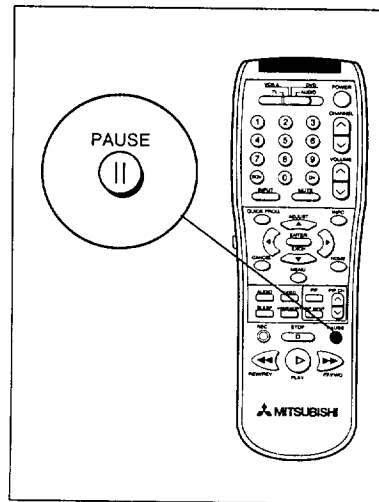
Press the ADJUST buttons to move the PIP image.



▷ Important: If you move the PIP image and then turn it off, it will remain in its new position when you turn it on again.

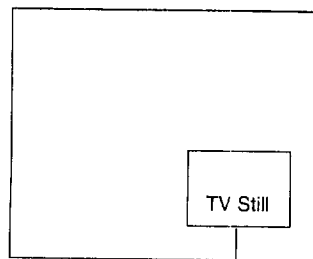


## Freezing the PIP image



- 1 Press the PAUSE button to freeze the PIP image on the screen.
- 2 Press PAUSE again to return to a live picture.

▷ **Important:** If you press the pause button while viewing a picture without a PIP image, a PIP image will appear and be frozen.



To remove the frozen picture, press the PIP button.

## ◆ Using the Active A/V Network Feature

This A/V Network is a special feature that makes it easier to use your television and other Mitsubishi A/V components together. When you connect the A/V Network, you can point the remote control at the television, and it will pass the remote control command to other components.

You will gain even more benefits if you have a Mitsubishi VCR equipped for the Active A/V Network. The Active A/V Network allows you to perform many of the commonly used features of your system at the press of just one button.

This section explains the various features of the Active A/V Network.

### **before you begin**

- You must have connected an A/V Network cable from the Active A/V Network terminal of your TV to the A/V Network IN terminal of your VCR. See *TV+Mitsubishi Products that Have A/V Network Terminals* in Chapter 2.
- You must have connected your VCR to INPUT-1 of your TV.
- You must have set your "TV A/V Network" setting to "Active" or "Basic". See *Setting the A/V Network* in Chapter 3.
- Your VCR's remote control settings should be set to "VCR-A".
- Your VCR video mute setting should be turned ON.

### **what the Active A/V Network does**

The Active A/V Network makes it easier and faster to use the VCR Quick Program and Play commands and the TV PIP commands.

**Important:** When using the Active A/V Network, you should always point your remote control at your television.

**Important:** If the TV is not receiving a signal on INPUT-1, it will automatically turn off in about ten minutes. If you use a TV menu during this time, the TV will turn off in about five minutes after you stop using the menus.

---

## Using the active A/V Network feature (cont.)

### using the quick program button (QUICK PROG.)

▷ **Important:** Before using this feature, set the select switch at the top of the remote control to "VCR-A".

When you press QUICK PROG. to begin programming your VCR:

- Active AV Network turns your VCR on and brings it to the "Program to Record" screen. If the VCR's clock has not been set, the "Clock Settings" screen displays. See your VCR Owner's Guide for information about setting the clock.
- Active AV Network turns your TV on (if it is off), and switches the TV to INPUT-1.

You can program your VCR by pointing your remote control at the TV.

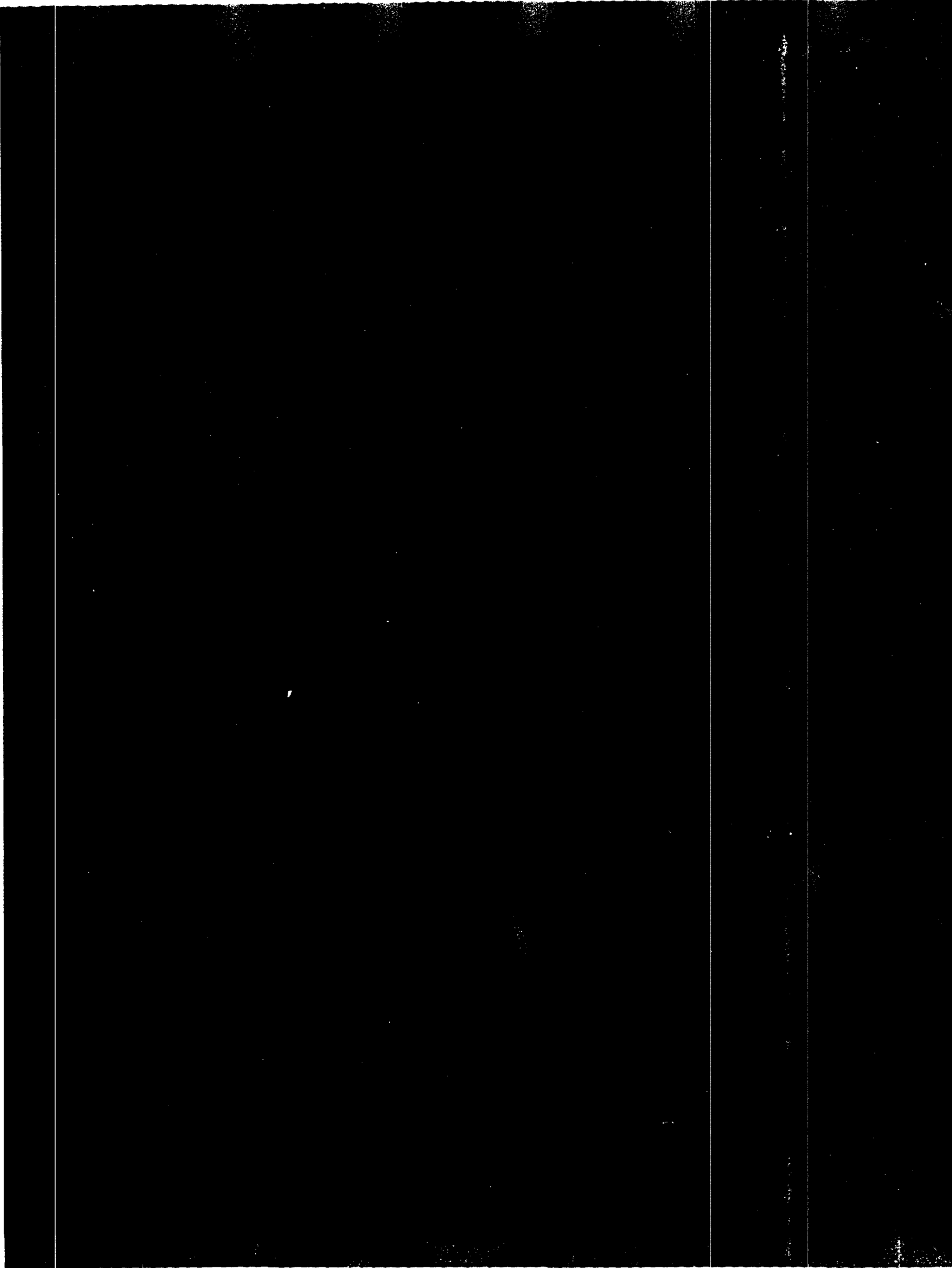
When you press QUICK PROG. to end VCR programming:

- If your TV is set to "Active", the Active AV Network turns your VCR off (unless a tape is currently playing or recording).
- Active AV Network returns your TV to the channel which was tuned in originally or turns the TV off (if it was originally off).

### using the PLAY button (AUTO PLAY)

When you press PLAY on the remote:

- Active A/V Network will turn your VCR on and begin playing the tape (if any).
- Active A/V Network will turn your TV on and switch it to INPUT-1.
- When you turn your TV off, your VCR will turn off, *unless* it is playing or recording.





Even though you're now familiar with the basic and advanced operations of the TV, you may occasionally encounter a problem. This chapter offers common answers to some of the most frequently asked questions of TV owners. We suggest that you consult this chart before contacting a Mitsubishi service representative.

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## Troubleshooting (cont.)

<b>Problem</b>	<b>Possible Solution</b>	<b>For More Information</b>
<ul style="list-style-type: none"><li>• The remote control doesn't work.</li></ul>	<ul style="list-style-type: none"><li>• Check that the batteries are installed correctly.</li><li>• Check that the select switch is set to "TV".</li><li>• Be sure that you are pointing the tip of the remote control toward the TV from a distance of no more than 20 feet.</li></ul>	<ul style="list-style-type: none"><li>• See <i>Getting Ready to Use the Remote Control</i> in Chapter 1 for an explanation of how to install batteries in the remote control.</li><li>• See <i>Remote Control Buttons and Functions</i> in Chapter 1, which explains where the select switch is located.</li><li>• See <i>Getting Ready to Use the Remote Control</i> in Chapter 1, which contains pointers for using the remote control.</li></ul>
<ul style="list-style-type: none"><li>• The TV takes several seconds to respond to button commands.</li></ul>	<ul style="list-style-type: none"><li>• Use the ENTER button to avoid delays.</li></ul>	<ul style="list-style-type: none"><li>• See <i>Charging Channels</i> in Chapter 3, which explains the function of the ENTER button.</li></ul>
<ul style="list-style-type: none"><li>• You can't access a channel.</li></ul>	<ul style="list-style-type: none"><li>• Be sure that the channel you want to view is programmed into memory.</li><li>• Check that the TV is tuned to the correct input source (antenna) for that channel.</li></ul>	<ul style="list-style-type: none"><li>• See <i>Memorizing Channels</i> in Chapter 3, which explains how to program channels into the TV's memory.</li><li>• See <i>Selecting the Input Source</i> in Chapter 3, which explains how to change the input source.</li></ul>
<ul style="list-style-type: none"><li>• On-screen displays appear each time you adjust a function.</li></ul>	<ul style="list-style-type: none"><li>• This is part of the normal operation of the TV.</li></ul>	<ul style="list-style-type: none"><li>• See <i>Screen Displays</i> in Chapter 4 for a full explanation of the on-screen displays.</li></ul>

## Troubleshooting (cont.)

Problem	Possible Solutions	For More Information
<ul style="list-style-type: none"> <li>There's no sound even when the volume is turned up.</li> </ul>	<ul style="list-style-type: none"> <li>Check that the MUTE button isn't on.</li> <li>The TV's "Listen to:" setting may be set to "second audio program" (S.A.P.).</li> <li>Check that "Speaker" function is set to "On."</li> </ul>	<ul style="list-style-type: none"> <li>See <i>Remote Control Buttons and Functions</i> in Chapter 1, which explains the location and function of the MUTE button.</li> <li>See <i>Adjusting the Sound</i> in Chapter 3, which explains how to adjust the "Listen to:" setting.</li> <li>See <i>Adjusting the Sound</i> in Chapter 3, which explains how to adjust the "Listen to:" setting.</li> </ul>
<ul style="list-style-type: none"> <li>You forget the code you used to set the parental lock.</li> </ul>	<ul style="list-style-type: none"> <li>Use the alternate procedure that doesn't require the use of the code.</li> </ul>	<ul style="list-style-type: none"> <li>See the Appendix, <i>Procedure for Bypassing the Parental Lock</i>.</li> </ul>
<ul style="list-style-type: none"> <li>You can't program the TV to turn on automatically.</li> </ul>	<ul style="list-style-type: none"> <li>The TV may be locked.</li> </ul>	<ul style="list-style-type: none"> <li>See <i>Using the Parental Lock</i> within <i>Using the Advanced Features</i> in Chapter 3.</li> </ul>
<ul style="list-style-type: none"> <li>The sound doesn't match the image on screen.</li> </ul>	<ul style="list-style-type: none"> <li>The TV's "Listen to:" setting may be set to "second audio program" (S.A.P.).</li> </ul>	<ul style="list-style-type: none"> <li>See <i>Adjusting the Sound</i> in Chapter 3, which explains how to adjust the "Listen to:" setting.</li> </ul>
<ul style="list-style-type: none"> <li>There is a large black or gray rectangle on the screen.</li> </ul>	<ul style="list-style-type: none"> <li>The TV has been set to "text" mode, but there is no text information being broadcast.</li> </ul>	<ul style="list-style-type: none"> <li>See <i>Using the Closed Caption Decoder</i> in the <i>Getting Started</i> of Chapter 3, or press the HOME button to make the rectangle disappear.</li> </ul>
<ul style="list-style-type: none"> <li>You cannot see a picture when you play a tape in the VCR.</li> </ul>	<ul style="list-style-type: none"> <li>If you connected your VCR with A/V cables, use the INPUT button to select the input source (Input 1, 2, or 3) that the VCR is connected to.</li> </ul>	<ul style="list-style-type: none"> <li>See <i>Selecting the Input Source</i> for an explanation about changing the input.</li> </ul>

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## Troubleshooting (cont.)

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<b>Problem</b>	<b>Possible Solution</b>	<b>For More Information</b>
<ul style="list-style-type: none"><li>• Antenna-B does not appear as a PIP source.</li></ul>	<ul style="list-style-type: none"><li>• The PIP source is not properly selected.</li></ul>	<ul style="list-style-type: none"><li>• See <i>Using the Picture-in-Picture (PIP) Modes</i> in Chapter 4.</li></ul>
<ul style="list-style-type: none"><li>• The images appear with additional outlines of red, green, and blue.</li></ul>	<ul style="list-style-type: none"><li>• The colors in the TV picture tubes may have become misaligned. You will need to adjust the colors yourself.</li></ul>	<ul style="list-style-type: none"><li>• See <i>Adjusting the Convergence</i> in Chapter 3.</li></ul>

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## Caution and care

► **Warning:** Don't leave stationary images on-screen for more than 10 minutes. These images can scar the picture tube, causing permanent damage to the TV. Some examples of stationary images are:

- stock-market reports
- station logos (especially bright ones)
- video game displays
- shopping channel displays
- the television's own on-screen displays

▷ **Important:** If you plan to place speakers next to the TV, make sure they are magnetically shielded. Ordinary speakers will cause distortion in the picture due to their strong magnets. This distortion, however, will not harm the picture tubes.

For maximum enjoyment and safe operation of your Mitsubishi TV, please read *IMPORTANT SAFEGUARDS*, pages 3 and 4 of your Owners Guide, very carefully and apply them properly.

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## Cleaning

Normally, light dusting with a non-scratching duster will keep your TV clean.

If you want to wipe down your TV, turn it off and unplug it. Then, wipe it gently with a soft cloth slightly moistened with water. You can add a few drops of mild liquid detergent to the water for oily dirt.

**DO NOT** allow liquid to enter the TV through the ventilation slots.

**DO NOT** use strong or abrasive cleaners.

**DO NOT** use spray liquids or cleaners directly on the TV's surface.

**DO NOT** scrub or rub the TV harshly. Wipe gently.

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## Calling for service

If you are unable to correct a problem with your TV, consult your Mitsubishi dealer or Mitsubishi Authorized Warranty Service Center.

Do not adjust any controls not described in this owner's guide.

Do not remove the protective back cover of this unit.

If you see one of the following displays on your screen, you should not change any settings. These are special displays used by the factory.

NOTE: "Firmware Versions" are included for reference only. If any of these settings are changed your warranty may be void.

If these displays appear, make sure that all of the on/off settings are the same as the illustrations above and then turn the TV off. If any of the settings are different from the illustrations above, turn the TV off and consult your Mitsubishi dealer or Mitsubishi Authorized Warranty Service Center.

Initial	3dia	: On
E2RESET	CCD	: On
Hotel	: Off	Auto clock : On
Power Res	: Off	
Ant	: 2	
Input	: 3	
When mute	: On	
Firmware Version:	M37270-XXXSP ...	
	M38123-XXXSP ...	
	LC86P4164 ...	

Initial		
Hotel	: Off	
Power Res	: Off	
Ant	: 2	
Input	: 3	
When mute	: On	
Firmware Version:	M37270-XXXSP ...	
	M38123-XXXSP ...	
	LC86P4164 ...	

**For further assistance, please call 800-332-2119**



## Procedure for Bypassing the Parental Lock

Cut along dotted line and file after reading.

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After you set the lock, you will need the secret code in order to:

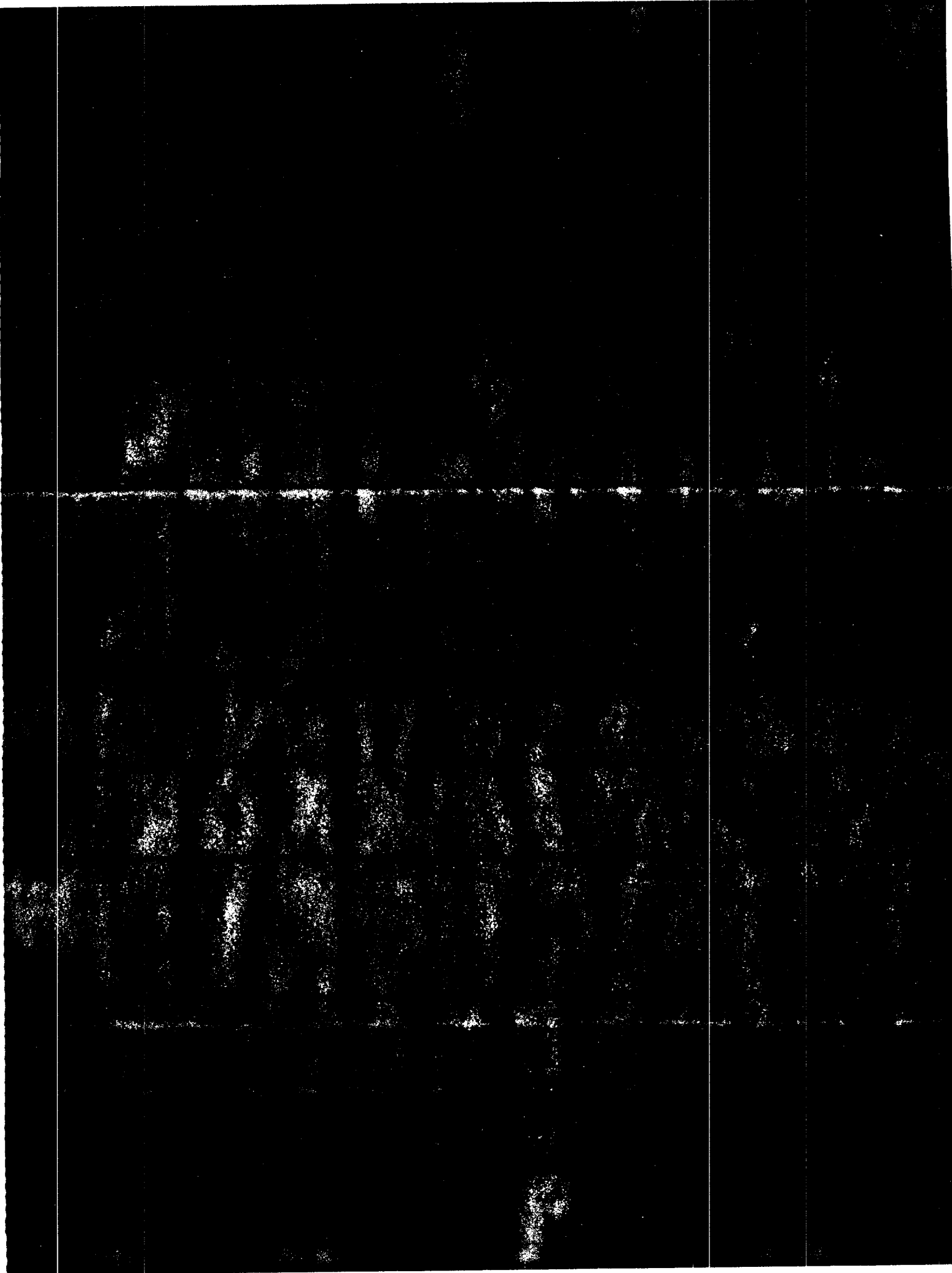
- view a locked channel,
- view the locked TV, or
- cancel the lock.

If you forget the code, you can view the locked TV without entering the code. To do this, simply press the buttons on your remote labeled “QV” and “9” at the same time whenever your secret code is requested.

▷ **Important:** Unlocking with this procedure is only temporary. To cancel the lock completely, follow the procedure below:

- ① Turn on your TV. If the TV requests your secret code, press the “QV” button and the “9” button on the remote control at the same time.
- ② Press the MENU button to view the main menu. Use the ADJUST button to select “Advanced Features”. Press ENTER.
- ③ Use the ADJUST button to select “Use Parental Lock”. Press ENTER.
- ④ Press the “QV” button and the “9” button on the remote control at the same time, instead of entering the code.
- ⑤ If you were using “Lock the TV”, the lock must be turned off. Using the ADJUST up/down buttons, select the “Off” setting.
- ⑥ If you were using “Lock the Channel,” use the ADJUST up/down buttons to place the cursor next to the channel whose lock you want to turn off. Press ENTER.
- ⑦ Press the CANCEL button to unlock that channel or use the ADJUST up/down buttons to change the channel to a new one.
- ⑧ Press the MENU button to return to the “Advanced Features” menu.

▷ **Important:** You must use the remote control included with this TV. You cannot use a remote control from another Mitsubishi component and you cannot use “Universal” remotes from other manufacturers.



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**MITSUBISHI  
PROJECTION TELEVISION  
LIMITED WARRANTY**

MITSUBISHI CONSUMER ELECTRONICS AMERICA, INC. ("MCEA") warrants to the original purchaser of this television that if purchased from an authorized MITSUBISHI Audio/Video Dealer, should it prove defective by reason of improper workmanship and/or material:

a. **Parts.** The lenticular (i.e. front picture) screen is warranted against defects in materials and workmanship for a period of 30 days. All other parts are warranted for a period of one year from the date of the original purchase at retail. We will repair or replace, at our option, any defective part without charge for the part. Parts used for replacement are warranted for the remainder of the original warranty period.

b. **Labor.** For 30 days after the original purchase at retail, we will repair or replace, at our option, the lenticular screen if it proves defective. For all other parts, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge for one year from the date of original purchase at retail.

c. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

**1. TO OBTAIN WARRANTY SERVICE:**

a. Contact your nearest authorized MITSUBISHI service center whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MCEA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized MITSUBISHI dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. **THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE.** However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. **THIS WARRANTY DOES NOT COVER** damage caused by: modification, alteration, repair or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (set-up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

3. **ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.**

4. **UNDER NO CIRCUMSTANCES SHALL MCEA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.**

5. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special, or consequential damages, so the above limitations or exclusions may not apply to you.

6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

7. **BEFORE REQUESTING SERVICE,** please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain this information, please call 800-332-2119, or write us at the address below.

**MITSUBISHI CONSUMER ELECTRONICS AMERICA, INC.**

PO Box 5025  
Norcross, GA 30091-5025



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